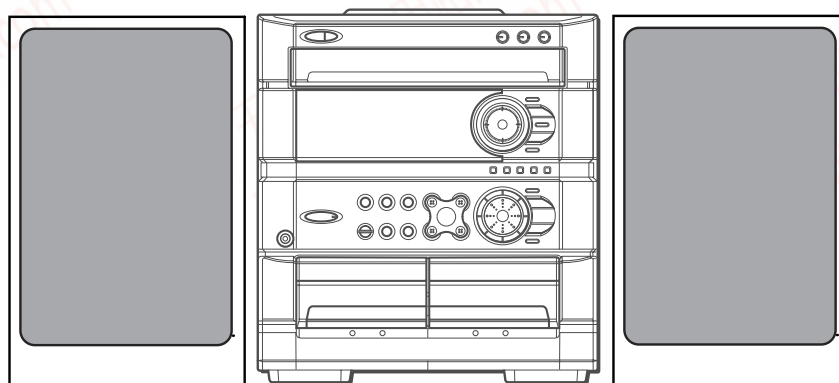




Z-L520

EZ,K,U



SERVICE MANUAL

COMPACT DISC STEREO
SYSTEM

BASIC TAPE MECHANISM : ZZM-3 PR1NM
BASIC CD MECHANISM : BZG-5 ZD3N1M

SYSTEM	CD CASSEIVER	SPEAKER	REMOTE CONTROLLER
Z-L520	CX-ZL520	SX-ZL520	RC-ZAS02

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" Z-L520 (EZ,K,U), (S/M Code No. 09-011-439-4T2).
- If requiring information about the CD mechanism, see Service Manual of BZG-5, (S/M Code No. 09-00C-353-3N2).

aiwa

S/M Code No. 09-012-439-4R2

REVISION

DATA

SPECIFICATIONS

<FM tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

<AM tuner section><U>

<MW tuner section><EZ,K>

Tuning range	530 kHz to 1710 kHz (10 kHz step) 531 kHz to 1602 kHz (9 kHz step)
Usable sensitivity	350 μ V/m
Antenna	Loop antenna

<LW tuner section><EZ,K>

Tuning range	144 kHz to 290 kHz
Usable sensitivity	1400 μ V/m
Antenna	Loop antenna

<Amplifier section>

Power output	U: Rated: 80 W + 80 W (6 ohms, T.H.D. 1 %, 1 kHz) EZ,K: Rated: 120 W + 120 W (6 ohms, T.H.D. 1 %, 1 kHz) U: Reference: 120 W + 120 W (6 ohms, T.H.D. 10 %, 1 kHz) EZ,K: Reference: 70 W + 70 W (6 ohms, T.H.D. 10 %, 1 kHz)
Total harmonic distortion	U: 0.15% (50 W, 1 kHz, 6 ohms, DIN AUDIO) EZ,K: 0.15% (30 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO/AUX/PHONO : 500 mV
Outputs	SPEAKERS: accept speakers of 6 ohms or more PHONES (stereo jack): accepts headphones of 32 ohms or more

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	50 Hz – 12500 Hz
Recording system	AC bias
Heads	Deck 1 : Playback head x 1 Deck 2 : Recording/playback head x 1, erase head x 1

<Compact disc player section>

Laser	Semiconductor laser (λ =780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

<Speaker system SX-ZL520>

Cabinet type	3 way, bass reflex
Speakers	Woofer: 170 mm (6 ³ / ₄ in.) cone type Tweeter: 60 mm (2 ³ / ₈ in.) cone type Super tweeter: 20 mm (1 ³ / ₁₆ in.) ceramic type
Impedance	6 ohms
Output sound pressure level	89 dB/W/m
Dimensions (W x H x D)	260 x 495 x 280 mm (10 ¹ / ₄ x 19 ¹ / ₂ x 11 ¹ / ₈ in.)
Weight	5.5 kg (12 lbs. 2 oz.)

<General>

Power requirements	U: 120 V AC, 60 Hz EZ,K: 230 V AC, 50Hz
Power consumption	U: 90 W EZ,K: 110 W
Dimensions of main unit (W x H x D)	360 x 395.3 x 350.6 mm (14 ¹ / ₄ x 15 ⁵ / ₈ x 13 ⁷ / ₈ in.)
Weight of main unit	U: 9.8 kg (21 lb.) EZ,K: 8.6 kg (18 lb.)

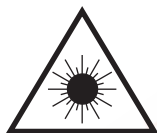
• Design and specifications are subject to change without notice.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

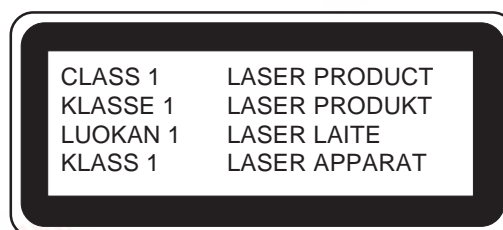
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.

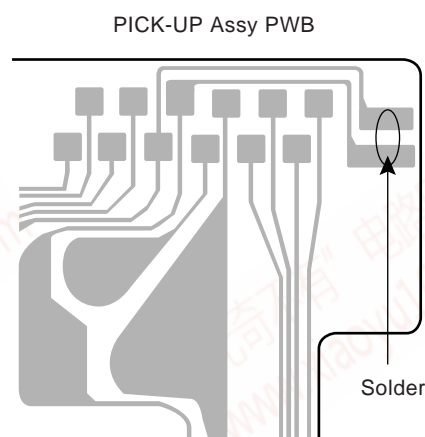


Precaution to replace Optical block

(KSS-213F)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

- 1) After the connection, remove solder shown in right figure.



NOTE ON BEFORE STARTING REPAIR

1. Forced discharge of electrolytic capacitor of power supply block

When repair is going to be attempted in the set that uses relay circuit in the power supply block, electric potential is kept charged across the electrolytic capacitors (C101, 102) even though AC power cord is removed. If repair is attempted in this condition, secondary defect can occur.

In order to prevent the secondary trouble, perform the following measures before starting repair work.

Discharge procedure

- ① Remove the AC power cord.
- ② Connect a discharging resistor at an end of lead wire that has clips at both ends. Connect the other end of the lead wire to metal chassis.
- ③ Contact the other end of the discharging resistor to the positive (+) side (+VH) of C101. (For two seconds)
- ④ Contact the same end of the discharging resistor as step ③ to the negative (-) side (-VH) of C102 in the same way. (For two seconds)
- ⑤ Check that voltage across C101 and C102 has decreased to 1 V or less using a multimeter or an oscilloscope.

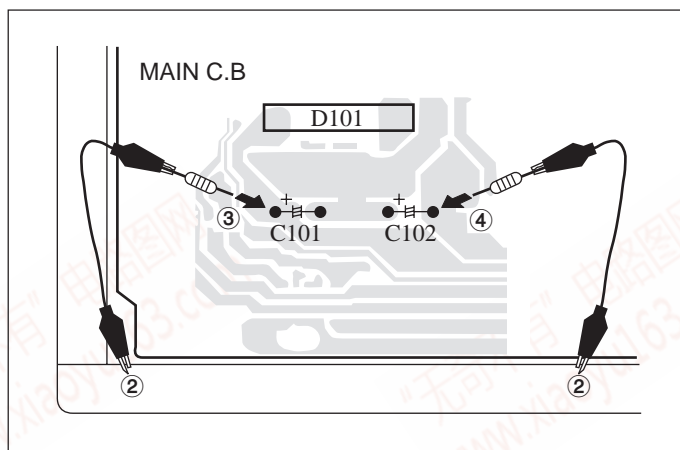


Fig-1

Select a discharging resistor referring to the following table.

Charging voltage (V) (C101, 102)	Discharging resistor (Ω)	Rated power (W)	Parts number
25-48	100	3	87-A00-247-090
49-140	220	5	87-A00-232-090

Note: The reference numbers (C101, C102) of the electrolytic capacitors can change depending on the models. Be sure to check the reference numbers of the charging capacitors on schematic diagram before starting the discharging work.

2. Check items before exchanging the MICROCOMPUTER

Be sure to check the following items before exchanging the MICROCOMPUTER. Exchange the MICROCOMPUTER after confirming that the MICROCOMPUTER is surely defective.

2-1. Regarding the HOLD terminal of the MICROCOMPUTER

When the HOLD terminal (INPUT) of the MICROCOMPUTER is "H", the MICROCOMPUTER is judged to be operating correctly. When this terminal is "L", the main power cannot be turned on. Therefore, be sure to check the terminal voltage of the HOLD terminal before exchange.

When the MICROCOMPUTER is not defective, the HOLD terminal can also go "L" when the POWER AMPLIFIER has any abnormalities that triggers the abnormality detection circuit on the MAIN C. B. that sets the HOLD terminal to "L".

• Good or no good judgement of the MICROCOMPUTER

- ① Turn on the AC main power.
- ② Confirm that the main power is turned on and the HOLD terminal of the MICROCOMPUTER keeps the "H" level or not.
- ③ When the HOLD terminal is "L" level, the abnormality detection circuit is judged to be working correctly and the MICROCOMPUTER is judged to be good.

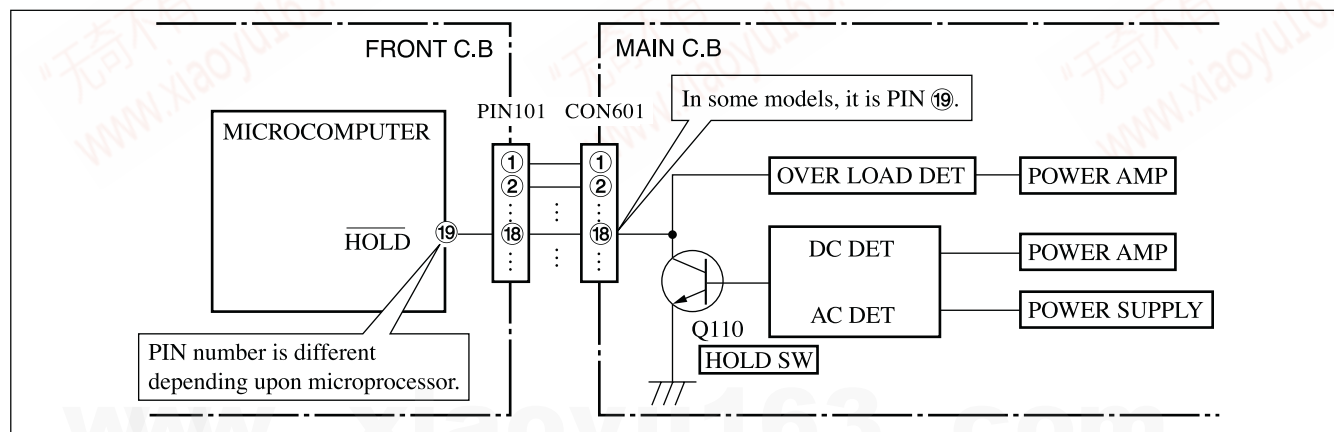


Fig-2-1

In such a case, check also if the POWER AMPLIFIER circuit or power supply circuit has any abnormalities or not.

2-2. Regarding reset

There are cases that the machine does not work correctly because the MICROCOMPUTER is not reset even though the AC power cord is re-inserted, or the software reset (pressing the STOP key + POWER key) is performed.

When the above described phenomenon occurs, it can lead to wrong judgement as if the MICROCOMPUTER is defective and to exchange the MICROCOMPUTER. In such a case, perform the forced-reset by the following procedure and check good or no good of the MICROCOMPUTER.

- ① Remove the AC power cord.

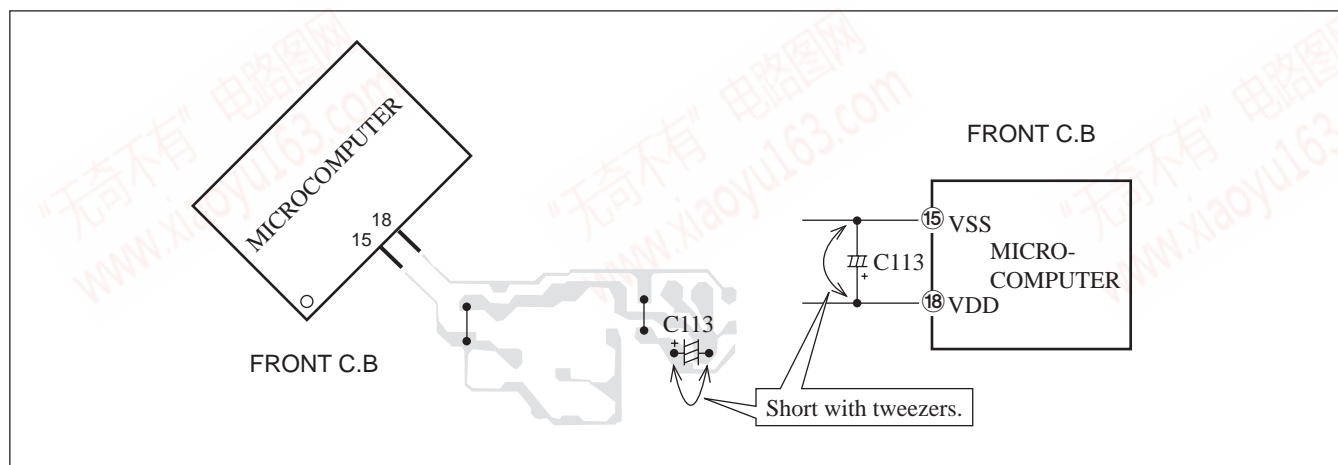


Fig-2-2

- ② Short both ends of the electrolytic capacitor C113 that is connected to VDD of the MICROCOMPUTER with tweezers.
- ③ Connect the AC power cord again. If the MICROCOMPUTER returns to the normal operation, the MICROCOMPUTER is good.

Note: The reference number or MICROCOMPUTER pin number of transistor (Q110) and electrolytic capacitor (C113) can change depending on the models. Be sure to check the reference numbers on schematic diagram before starting the discharging work.

2-3. Confirmation of soldering state of MICROCOMPUTER

Check the soldering state of the MICROCOMPUTER in addition to the above described procedures. Be sure to exchange the MICROCOMPUTER after surely confirming that the trouble is not caused by poor soldering but the MICROCOMPUTER itself.

ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C9	87-A12-317-080		C-CAP,U 0.1-50 Z F
	8B-MA5-651-010		C-IC,LC876564V-5T64	C10	87-A12-317-080		C-CAP,U 0.1-50 Z F
	87-A21-419-040		C-IC,NJM14558MD-TE2	C11	87-A12-317-080		C-CAP,U 0.1-50 Z F
	87-A21-577-040		C-IC,M61506FP	C12	87-A12-317-080		C-CAP,U 0.1-50 Z F
	87-A21-893-040		C-IC,NJM14558V-TE2	C19	87-016-520-000		CAP,E 3300-65 M SMG<U>
	87-A21-831-010		IC,SPS-442-1-F1				
				C19	87-A10-627-000		CAP,E 2200-50 M SMG<EZ,K>
	87-A21-443-040		C-IC,M62495AFP	C20	87-016-520-000		CAP,E 3300-65 M SMG<U>
	87-070-289-040		IC,BU2092F	C20	87-A10-627-000		CAP,E 2200-50 M SMG<EZ,K>
	87-A21-695-010		IC,LA1845L	C21	87-A10-520-000		CAP,E 3300-35 M SMG<U>
	87-070-127-110		IC,LC72131D	C21	87-016-495-000		CAP,E 3300-25 M SMG<EZ,K>
	87-A21-269-010		IC,EW732				
	87-A20-440-040		C-IC,BU1920FS<EZ>	C22	87-A10-520-000		CAP,E 3300-35 M SMG<U>
TRANSISTOR				C22	87-016-495-000		CAP,E 3300-25 M SMG<EZ,K>
	87-A30-559-010		TR,CSB1370EF	C25	87-010-247-080		CAP, ELECT 100-50V
	87-A30-492-080		TR,2SC5343G	C26	87-010-247-080		CAP, ELECT 100-50V
	87-A30-076-080		C-TR,2SC3052F	C27	87-010-247-080		CAP, ELECT 100-50V
	87-A30-075-080		C-TR,2SA1235F				
	87-A30-086-040		C-TR,CSD1306E	C28	87-010-247-080		CAP, ELECT 100-50V
				C30	87-010-430-080		CAP, ELECT 100-63
	87-A30-107-070		C-TR,CMBT5401	C31	87-A12-062-080		CAP,E 100-10 SMG
	87-A30-427-040		C-TR,DTA114EKA	C32	87-012-286-080		CAP, U 0.01-25
	87-A30-447-040		C-TR,DTA114EKA	C33	87-A12-062-080		CAP,E 100-10 SMG
	87-A30-484-080		C-TR,KRA102S				
	87-026-610-080		TR,KTC3198GR	C34	87-010-247-080		CAP, ELECT 100-50V
				C35	87-A12-066-080		CAP,E 47-16 SMG
	87-026-609-080		TR,KTA1266GR	C36	87-010-381-080		CAP, ELECT 330-16V
	87-A30-190-080		TR,CC5551	C38	87-012-286-080		CAP, U 0.01-25
	87-A30-106-040		C-TR,CMBT5551	C60	87-A12-089-080		CAP,E 3.3-50 SMG
	87-A30-087-080		C-FET,2SK2158				
	87-A30-098-010		TR,FP 1016	C61	87-A12-071-080		CAP,E 47-25 SMG
				C83	87-A12-074-080		CAP,E 470-25 SMG<U>
	87-A30-097-010		TR,FN 1016	C83	87-A12-068-080		CAP,E 470-16 SMG<EZ,K>
	87-A30-162-010		FET,2SK2937	C97	87-010-759-080		C-CAP,U, 0.1-25F
	87-A30-091-080		FET,2SJ460	C99	87-010-759-080		C-CAP,U, 0.1-25F
	87-A30-090-080		FET,2SK2541				
	87-A30-062-080		C-TR,KRC104S	C101	87-012-279-080		C-CAP,U 2700P-50 B
				C102	87-012-279-080		C-CAP,U 2700P-50 B
	87-A30-582-080		TR,CDA1585BC	C103	87-A12-090-080		CAP,E 4.7-50 SMG
	87-A30-495-080		TR,2SA1981Y	C104	87-A12-090-080		CAP,E 4.7-50 SMG
	87-A30-142-040		C-TR,DTA123EKA	C107	87-A12-091-080		CAP,E 10-50 SMG
	89-327-143-080		TR,2SC27140				
	87-A30-489-080		C-TR,KRA107S	C108	87-A12-091-080		CAP,E 10-50 SMG
				C109	87-012-199-080		C-CAP,U 220P-50 J CH
	89-503-602-080		C-FET,2SK360E	C110	87-012-199-080		C-CAP,U 220P-50 J CH
	87-A30-234-080		TR,CSC4115BC	C111	87-010-392-080		CAP ELECT 33-35 SME
	87-A30-494-080		TR,2SA1980G	C112	87-010-392-080		CAP ELECT 33-35 SME
	87-A30-214-010		TR,2SB1344				
	87-A30-215-010		TR,2SD2025	C113	87-A10-596-080		C-CAP,S 100P-100 J CH<U>
DIODE				C113	87-012-195-080		C-CAP,U 100P-50 J CH<EZ,K>
	87-017-447-010		DIODE,GBU4DL-6419	C114	87-A10-596-080		C-CAP,S 100P-100 J CH<U>
	87-A40-553-080		DIODE,1N4003 LES	C114	87-012-195-080		C-CAP,U 100P-50 J CH<EZ,K>
	87-A40-780-080		ZENER,UZ33BSD	C115	87-012-167-080		C-CAP,U 5P-50 CH
	87-020-465-080		DIODE,1SS133				
	87-A40-764-080		ZENER,UZ10BSC	C116	87-012-167-080		C-CAP,U 5P-50 CH
				C117	87-A12-317-080		C-CAP,U 0.1-50 Z F
	87-A40-270-080		C-DIODE,MC2838	C118	87-A12-317-080		C-CAP,U 0.1-50 Z F
	87-A40-269-080		C-DIODE,MC2836	C119	87-A12-317-080		C-CAP,U 0.1-50 Z F
	87-A40-234-080		ZENER,MTZJ5.6A	C120	87-A12-317-080		C-CAP,U 0.1-50 Z F
	87-A40-646-010		DIODE,FMB-G16L				
	87-A40-749-080		ZENER,UZ5.6BSB	C121	87-A12-090-080		CAP,E 4.7-50 SMG
				C122	87-A12-090-080		CAP,E 4.7-50 SMG
	87-A40-539-080		ZENER,MTZJ2.4A	C123	87-010-177-080		C-CAP,S 820P-50 J SL C2012
	87-A40-291-080		DIODE,1N4148 (CPT)	C124	87-010-177-080		C-CAP,S 820P-50 J SL C2012
	87-A40-002-080		ZENER,MTZJ5.1C	C133	87-012-282-080		CAP, U 4700P-50
	87-A40-393-090		DIODE,1N5402GW (F20)				
	87-017-149-080		ZENER,HZS6A2L	C140	87-012-278-080		C-CAP,U 2200P-50 B
MAIN C.B				C186	87-010-759-080		C-CAP,U, 0.1-25F
C3	87-A12-317-080		C-CAP,U 0.1-50 Z F	C187	87-A10-119-080		CAP,E 10-100 REA<U>
C4	87-A12-317-080		C-CAP,U 0.1-50 Z F	C187	87-A12-091-080		CAP,E 10-50 SMG<EZ,K>
C5	87-A12-317-080		C-CAP,U 0.1-50 Z F	C188	87-A10-119-080		CAP,E 10-100 REA<U>
C6	87-A12-317-080		C-CAP,U 0.1-50 Z F				
				C188	87-A12-091-080		CAP,E 10-50 SMG<EZ,K>
				C191	87-A10-812-080		C-CAP,S 220P-200 J CH<U>
				C191	87-A10-946-080		C-CAP,S 220P-100 J CH<EZ,K>
				C192	87-A10-812-080		C-CAP,S 220P-200 J CH<U>
				C192	87-A10-946-080		C-CAP,S 220P-100 J CH<EZ,K>
				C223	87-012-272-080		C-CAP,U 680P-50 K B GRM<EZ,K>
				C224	87-012-272-080		C-CAP,U 680P-50 K B GRM<EZ,K>
				C225	87-A12-317-080		C-CAP,U 0.1-50 Z F
				C226	87-A12-317-080		C-CAP,U 0.1-50 Z F
				C227	87-A12-317-080		C-CAP,U 0.1-50 Z F

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C228	87-A12-317-080		C-CAP,U 0.1-50 Z F	C771	87-A12-062-080		CAP,E 100-10 SMG
C229	87-012-287-080		C-CAP,U 0.015-25 F	C772	87-012-286-080		CAP, U 0.01-25
C230	87-012-287-080		C-CAP,U 0.015-25 F	C779	87-010-949-080		C-CAP,S 0.01-50 J B<EZ,K>
C231	87-012-286-080		CAP, U 0.01-25	C780	87-010-949-080		C-CAP,S 0.01-50 J B<EZ,K>
C232	87-012-286-080		CAP, U 0.01-25	C782	87-012-286-080		CAP, U 0.01-25
C241	87-010-759-080		C-CAP,U, 0.1-25F	C783	87-012-286-080		CAP, U 0.01-25
C301	87-012-274-080		C-CAP,U 1000P-50 K B	C784	87-012-286-080		CAP, U 0.01-25
C302	87-012-274-080		C-CAP,U 1000P-50 K B	C785	87-012-286-080		CAP, U 0.01-25
C303	87-012-275-080		C-CAP,U 1200P-50 K B	C786	87-012-286-080		CAP, U 0.01-25
C304	87-012-275-080		C-CAP,U 1200P-50 K B	C788	87-012-167-080		C-CAP,U 5P-50 CH
C307	87-A12-062-080		CAP,E 100-10 SMG	C789	87-A12-052-080		C-CAP,S 0.033-25 J B<U>
C308	87-A12-062-080		CAP,E 100-10 SMG	C789	87-016-118-080		C-CAP,U 0.022-25 J B GRM<EZ,K>
C309	87-012-195-080		C-CAP,U 100P-50CH	C790	87-A12-052-080		C-CAP,S 0.033-25 J B<U>
C310	87-012-195-080		C-CAP,U 100P-50CH	C790	87-016-118-080		C-CAP,U 0.022-25 J B GRM<EZ,K>
C313	87-012-284-080		CAP, U 6800P-50	C791	87-010-831-080		C-CAP,U,0.1-16F
C314	87-012-284-080		CAP, U 6800P-50	C792	87-012-286-080		CAP, U 0.01-25
C315	87-A12-062-080		CAP,E 100-10 SMG	C793	87-A12-090-080		CAP,E 4.7-50 SMG
C317	87-A12-085-080		CAP,E 0.33-50 SMG	C795	87-012-286-080		CAP, U 0.01-25
C318	87-A12-085-080		CAP,E 0.33-50 SMG	C796	87-012-286-080		CAP, U 0.01-25
C326	87-016-118-080		C-CAP,U0.022-25JB	C797	87-A12-091-080		CAP,E 10-50 SMG
C327	87-A12-317-080		C-CAP,U 0.1-50 Z F	C798	87-012-286-080		CAP, U 0.01-25
C350	87-012-286-080		C-CAP,U 0.01-25 K B<EZ,K>	C799	87-010-265-080		CAP,E 33-16
C360	87-A12-087-080		CAP,E 1-50 SMG	C800	87-010-829-080		CAP, U 0.047-16
C365	87-010-759-080		C-CAP,U, 0.1-25F	C801	87-A12-089-080		CAP,E 3.3-50 SMG
C399	87-012-270-080		CAP, U 470P-50	C802	87-010-829-080		CAP, U 0.047-16
C401	87-A12-083-080		CAP,E 0.1-50 SMG	C803	87-010-787-080		CAP, U 0.022-25
C402	87-A12-083-080		CAP,E 0.1-50 SMG	C804	87-A12-062-080		CAP,E 100-10 SMG
C403	87-012-193-080		C-CAP,U 82P-50 CH	C807	87-A12-086-080		CAP,E 0.47-50 SMG
C404	87-012-193-080		C-CAP,U 82P-50 CH	C808	87-A12-087-080		CAP,E 1-50 SMG
C405	87-012-286-080		CAP, U 0.01-25	C809	87-A12-087-080		CAP,E 1-50 SMG
C406	87-012-286-080		CAP, U 0.01-25	C810	87-010-831-080		C-CAP,U,0.1-16F
C407	87-012-286-080		CAP, U 0.01-25	C814	87-012-286-080		CAP, U 0.01-25
C408	87-012-286-080		CAP, U 0.01-25	C815	87-A12-086-080		CAP,E 0.47-50 SMG
C409	87-012-278-080		C-CAP,U 2200P-50 B	C816	87-A12-086-080		CAP,E 0.47-50 SMG
C410	87-012-278-080		C-CAP,U 2200P-50 B	C818	87-012-276-080		C-CAP,U 1500P-50 K B<EZ,K>
C411	87-A12-091-080		CAP,E 10-50 SMG	C821	87-A12-091-080		CAP,E 10-50 SMG
C412	87-A12-091-080		CAP,E 10-50 SMG	C823	87-010-986-080		C-CAP,S 820P-50 J CH<U>
C452	87-A12-092-080		CAP,E 22-50 SMG	C823	87-012-349-080		C-CAP,S 1000P-50 J CH GRM<EZ,K>
C453	87-012-279-080		C-CAP,U 2700P-50 B	C824	87-A12-090-080		CAP,E 4.7-50 SMG
C454	87-012-279-080		C-CAP,U 2700P-50 B	C825	87-010-829-080		CAP,U 0.047-16
C455	87-012-279-080		C-CAP,U 2700P-50 B	C831	87-A12-092-080		CAP,E 22-50 SMG<EZ,K>
C456	87-012-286-080		CAP, U 0.01-25	C842	87-012-286-080		CAP, U 0.01-25
C457	87-A12-361-080		CAP,M 5600P-100 J CP	C844	87-012-286-080		CAP, U 0.01-25
C458	87-012-274-080		CHIP CAP,U 1000P-50B	C850	87-A12-071-080		CAP,E 47-25 SMG
C459	87-012-271-080		CAP, U 560P-50	C851	87-012-286-080		CAP, U 0.01-25
C460	87-010-759-080		C-CAP,U, 0.1-25F	C852	87-012-286-080		CAP, U 0.01-25
C461	87-012-269-080		C-CAP,U 390P-50 B	C853	87-012-286-080		CAP, U 0.01-25
C462	87-012-269-080		C-CAP,U 390P-50 B	C858	87-010-831-080		C-CAP,U,0.1-16 Z F
C470	87-018-127-080		CAP, CER 470P-50V	C859	87-010-831-080		C-CAP,U,0.1-16 Z F<EZ,K>
C605	87-012-275-080		C-CAP,U 1200P-50 B	C860	87-012-286-080		C-CAP,U 0.01-25 K B<EZ,K>
C606	87-012-275-080		C-CAP,U 1200P-50 B	C869	87-012-286-080		C-CAP,U 0.01-25 K B<EZ,K>
C609	87-012-287-080		C-CAP,U 0.015-25 F	C870	87-012-274-080		C-CAP,U 1000P-50 K B<EZ,K>
C610	87-012-287-080		C-CAP,U 0.015-25 F	C871	87-012-199-080		C-CAP,U 220P-50 J CH<EZ,K>
C611	87-A12-084-080		CAP,E 0.22-50 SMG	C872	87-012-199-080		C-CAP,U 220P-50 J CH<EZ,K>
C612	87-A12-084-080		CAP,E 0.22-50 SMG	C873	87-A10-039-080		C-CAP,U 470P-50 J CH<EZ,K>
C613	87-A12-084-080		CAP,E 0.22-50 SMG	C874	87-A12-091-080		CAP,E 10-50 SMG<EZ,K>
C614	87-A12-084-080		CAP,E 0.22-50 SMG	C875	87-010-759-080		C-CAP,U 0.1-25 Z F<EZ,K>
C615	87-012-172-080		C-CAP,U 10P-50 D CH	C876	87-A12-091-080		CAP,E 10-50 SMG<EZ,K>
C616	87-010-221-080		CAP, ELECT 470-10V	C877	87-012-286-080		C-CAP,U 0.01-25 K B<EZ,K>
C617	87-010-221-080		CAP, ELECT 470-10V	C878	87-012-184-080		C-CAP,U 33P-50 J CH<EZ,K>
C618	87-A12-091-080		CAP,E 10-50 SMG	C879	87-012-180-080		C-CAP,U 22P-50 J CH<EZ,K>
C620	87-010-263-080		CAP, ELECT 100-10V	C901	87-018-145-080		CAP,TC-U 6.8P-50 CH<U>
C623	87-010-402-080		CAP, ELECT 2.2-50V	C904	87-012-286-080		C-CAP,U 0.01-25<U>
C624	87-010-402-080		CAP, ELECT 2.2-50V	C905	87-012-286-080		C-CAP,U 0.01-25<U>
C630	87-010-759-080		C-CAP,U, 0.1-25F	C907	87-012-286-080		C-CAP,U 0.01-25<U>
C653	87-012-188-080		C-CAP,U 47P-50 J CH	C908	87-A10-915-080		C-CAP,U 1000P-25 J CH<U>
C654	87-012-188-080		C-CAP,U 47P-50 J CH	C909	87-012-286-080		C-CAP,U 0.01-25<U>
C669	87-012-195-080		C-CAP,U 100P-50CH	C910	87-012-174-080		C-CAP,U 12P-50 J CH<U>
C670	87-012-195-080		C-CAP,U 100P-50CH	C911	87-012-170-080		C-CAP,U 8P-50 CH<U>
C677	87-012-286-080		CAP, U 0.01-25	C912	87-012-195-080		C-CAP,U 100P-50CH<U>

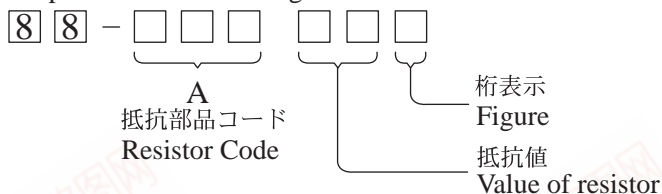
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C913	87-012-286-080		C-CAP, U 0.01-25<U>	L902	88-ZA1-602-110		COIL,FM-RF-U2 2G<U>
C914	87-012-166-080		C-CAP,U 4P-50 C CH<U>	L903	88-ZA1-601-010		COIL,FM-RF-U1 2G<U>
C915	87-012-174-080		C-CAP,U 12P-50 J CH<U>	L904	87-005-847-080		COIL,2.2UH (CECS) <U>
C916	87-012-180-080		C-CAP,U 22P-50 CH<U>	L905	88-ZA1-624-010		COIL,FM IFT 7-6.2 (COILS) <U>
C917	87-012-186-080		C-CAP,U 39P-50 CH<U>	L906	88-ZA1-603-010		COIL,FM-OSC-U 2G<U>
C918	87-A10-039-080		C-CAP,U 470P-50 J CH<U>	L941	87-A50-020-010		COIL,ANT LW(C01)252 KHZ<EZ,K>
C921	87-012-195-080		C-CAP,U 100P-50 CH<U>	L942	87-A50-019-010		COIL,OSC LW(C01)856 KHZ<EZ,K>
C922	87-012-174-080		C-CAP,U 12P-50-J CH<U>	L951	8A-NF8-667-010		COIL,AM PACK 4 (TOK) <U>
C940	87-012-286-080		C-CAP,U 0.01-25 K B<EZ,K>	L951	8A-NF8-668-010		COIL,AM PACK 2 (TOK) <EZ,K>
C942	87-012-165-080		C-CAP,U 3P-50 CH<EZ,K>	R129	87-A00-262-080		RES,M/F 0.15-2W J<U>
C947	87-012-286-080		C-CAP,U 0.01-25 K B<EZ,K>	R129	87-A00-669-080		RES,M/F 0.22-2W J RA<EZ,K>
C948	87-A10-039-080		C-CAP,U 470P-50 J CH<EZ,K>	R130	87-A00-262-080		RES,M/F 0.15-2W J<U>
C952	87-012-286-080		C-CAP,U 0.01-25 K B<EZ,K>	R130	87-A00-669-080		RES,M/F 0.22-2W J RA<EZ,K>
C957	87-012-174-080		C-CAP,U 12P-50-J CH<EZ,K>	R131	87-A00-262-080		RES,M/F 0.15-2W J<U>
C958	87-012-286-080		C-CAP,U 0.01-25 K B<EZ,K>	R131	87-A00-669-080		RES,M/F 0.22-2W J RA<EZ,K>
C959	87-010-831-080		C-CAP,U,0.1-16F	R132	87-A00-262-080		RES,M/F 0.15-2W J<U>
C960	87-010-831-080		C-CAP,U,0.1-16F	R132	87-A00-669-080		RES,M/F 0.22-2W J RA<EZ,K>
C961	87-012-167-080		C-CAP,U 5P-50 CH<U>	R243	87-A00-441-050		RES,270-1/2W J RP<U>
C962	87-A12-087-080		CAP,E 1-50 SMG <EZ,K>	R243	87-A00-440-050		RES,220-1/2W J RP<EZ,K>
C963	87-015-785-080		C-CAP,0.1-25 Z F	R244	87-A00-441-050		RES,270-1/2W J RP<U>
C971	87-A12-067-080		CAP,E 330-16 SMG	R244	87-A00-440-050		RES,220-1/2W J RP<EZ,K>
C972	87-A12-090-080		CAP,E 4.7-50 SMG	R245	87-A00-442-050		RES,330-1/2W J RP<U>
C973	87-012-286-080		CAP, U 0.01-25	R245	87-A00-440-050		RES,220-1/2W J RP<EZ,K>
C974	87-012-286-080		CAP, U 0.01-25	R246	87-A00-442-050		RES,330-1/2W J RP<U>
C979	87-012-195-080		C-CAP,U 100P-50CH	R246	87-A00-440-050		RES,220-1/2W J RP<EZ,K>
C981	87-A12-071-080		CAP,E 47-25 SMG	R790	87-012-286-080		CAP, U 0.01-25
C982	87-010-831-080		C-CAP,U,0.1-16F	R991	87-012-195-080		C-CAP,U 100P-50CH
C983	87-012-286-080		CAP, U 0.01-25	R993	87-012-195-080		C-CAP,U 100P-50CH
C984	87-012-286-080		CAP, U 0.01-25	R995	87-012-195-080		C-CAP,U 100P-50CH
C985	87-012-195-080		C-CAP,U 100P-50CH<EZ,K>	SFR451	87-024-435-080		SFR 33K RH 063MC
C987	87-012-286-080		CAP, U 0.01-25	SFR452	87-024-435-080		SFR 33K RH 063MC
C989	87-012-286-080		CAP, U 0.01-25<EZ,K>	TC942	87-A91-774-080		TRIMMER,PLY 30P 6.8X5.4 CDYL
C991	87-012-176-080		C-CAP,U 15P-50 J CH	TH101	87-A91-042-080		C-THMS,100K 55001
C992	87-012-176-080		C-CAP,U 15P-50 J CH	TH102	87-A91-042-080		C-THMS,100K 55001
C993	87-012-274-080		CHIP CAP,U 1000P-50B	WH1	87-A90-510-010		HLDR,WIRE 2.5-9P
C995	87-012-274-080		CHIP CAP,U 1000P-50B	X862	87-A70-307-010		VIB,XTAL 4.332MHZ CSA-309ST
C997	87-010-831-080		C-CAP,U,0.1-16F	X992	87-A70-306-010		VIB,XTAL 4.500MHZ CSA-309ST
C998	87-A12-071-080		CAP,E 47-25 SMG				
C999	87-A11-155-080		CAP,TC U 0.01-16 Z F				
CF831	87-008-261-010		FLTR,CF SFE10.7MA5<U>	FRONT C.B			
CF831	87-008-423-010		FLTR,CF SFE10.7MS3G-A<EZ,K>	C100	87-A10-047-080		C-CAP,U 1-10 Z F
CF832	87-008-261-010		FLTR,CF SFE10.7MA5<U>	C102	87-010-498-040		CAP,E 10-16 M 5L SRE
CF832	82-785-747-010		CF,MS2 GHY,R<EZ,K>	C106	87-010-248-040		CAP,E 220-10 M 11L SME
CN301	87-A60-620-010		CONN,3P V 2MM JMT	C107	87-010-759-080		C-CAP,U 0.1-25F
CN351	87-A60-625-010		CONN,8P V 2MM JMT	C108	87-012-278-080		C-CAP,U 2200P-50 B
CN501	87-099-564-010		CONN,4P TUC-P4P-B1	C110	87-010-248-040		CAP,E 220-10 M 11L SME
CN601	87-099-719-010		CONN,30P TYK-B(X)	C111	87-A10-260-080		C-CAP,U 0.1-16 K B
CN602	87-A60-131-010		CONN,6P V FE	C112	87-010-493-040		CAP,E 0.47-50 M 5L SRE
CNA1	8A-NF8-653-010		CONN ASSY,9P TID-A(480)	C113	87-012-274-080		CHIP CAP,U 1000P-50B
D902	87-A40-128-080		C-VARI-CAP,HVU202A<U>	C116	87-010-759-080		C-CAP,U 0.1-25F
D903	87-A40-128-080		C-VARI-CAP,HVU202A<U>	C117	87-010-872-080		C-CAP,U 470P-50 SL
FFC602	88-906-321-110		FF-CABLE,6P 1.25 320MM	C122	87-012-369-080		C-CAP,S 0.047-50F
FFE831	A8-6ZA-19H-030		6ZA-1 FEMENM<EZ,K>	C123	87-010-408-040		CAP,E 47-50 SME
J201	87-A60-488-010		JACK,DIA6.3 BLK ST W/SW KM16AT	C124	87-010-421-040		CAP,E 4.7-50 5L
J203	87-A60-238-010		TERMINAL,SP 4P (MSC)	C125	87-010-421-040		CAP,E 4.7-50 5L
J602	87-A60-881-010		JACK,PIN 2P MSP 242V05 PBSN	C132	87-012-199-080		C-CAP,U 220P-50 J CH
J831	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02<U>	C133	87-012-184-080		C-CAP,U 33P-50 CH
J832	87-A60-403-010		TERMINAL,ANT PAL 2P HSP-312V05<EZ,K>	C134	87-012-274-080		C-CAP,U 1000P-50 K B<EZ,K>
JR123	87-A10-596-080		C-CAP,S 100P-100 J CH<U>	C135	87-018-209-080		CAP, CER 0.1-50V
JR123	87-012-195-080		C-CAP,U 100P-50 J CH<EZ,K>	C137	87-012-178-080		C-CAP,U 18P-50 CH
JR124	87-A10-596-080		C-CAP,S 100P-100 J CH<U>	C138	87-010-759-080		C-CAP,U 0.1-25F
JR124	87-012-195-080		C-CAP,U 100P-50 J CH<EZ,K>	C251	87-010-759-080		C-CAP,U 0.1-25F
L201	87-A50-610-010		COIL,1UH K(MDEC)	C252	87-012-199-080		CAP 220P
L202	87-A50-610-010		COIL,1UH K(MDEC)	C253	87-012-195-080		C-CAP,U 100P-50CH
L451	87-007-342-010		COIL,OSC 85K BIAS	C301	87-012-358-080		C-CAP,S 0.47-10 Z F
L801	87-A50-608-010		COIL,FM DET-N(TOK)	C302	87-012-335-080		C-CAP,U 270P-50 J SL
L802	87-A91-551-010		FLTR,PCFJZH-450 L(TOK)	C303	87-012-358-080		C-CAP,S 0.47-10 Z F
L811	87-005-847-080		COIL,2.2UH (CECS)	C304	87-012-358-080		C-CAP,S 0.47-10 Z F
L832	87-005-847-080		COIL,2.2UH (CECS)	C305	87-010-759-080		C-CAP,U 0.1-25F
L861	87-005-847-080		COIL,2.2UH (CECS) <EZ,K>	C306	87-010-759-080		C-CAP,U 0.1-25F

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C310	87-010-759-080		C-CAP,U, 0.1-25F	S828	87-A90-095-080		SW, TACT EVQ11G04M
C311	87-010-405-040		CAP,E 10-50	S829	87-A90-095-080		SW, TACT EVQ11G04M
C411	87-012-157-080		C-CAP,S 330P-50 CH	S830	87-A90-095-080		SW, TACT EVQ11G04M
C412	87-010-405-040		CAP,E 10-50	S831	87-A90-095-080		SW, TACT EVQ11G04M
C421	87-012-274-080		C-CAP,U 1000P-50 K B	S836	87-A90-095-080		SW, TACT EVQ11G04M<EZ, K>
C422	87-012-274-080		C-CAP,U 1000P-50 K B	S837	87-A90-095-080		SW, TACT EVQ11G04M<EZ, K>
C651	87-012-274-080		C-CAP,U 1000P-50 K B	S838	87-A90-095-080		SW, TACT EVQ11G04M<EZ, K>
C652	87-012-274-080		C-CAP,U 1000P-50 K B	S842	87-A90-095-080		SW, TACT EVQ11G04M
C940	87-012-145-080		C-CAP,S 270P-50 J CH	S843	87-A90-095-080		SW, TACT EVQ11G04M
C941	87-012-145-080		C-CAP,S 270P-50 J CH	S845	87-A90-095-080		SW, TACT EVQ11G04M
C942	87-012-145-080		C-CAP,S 270P-50 J CH	S846	87-A90-095-080		SW, TACT EVQ11G04M
C943	87-012-145-080		C-CAP,S 270P-50 J CH	S849	87-A90-095-080		SW, TACT EVQ11G04M
C944	87-012-145-080		C-CAP,S 270P-50 J CH	S851	87-A90-095-080		SW, TACT EVQ11G04M
C945	87-012-145-080		C-CAP,S 270P-50 J CH				
C946	87-012-145-080		C-CAP,S 270P-50 J CH				
C947	87-012-145-080		C-CAP,S 270P-50 J CH				
C948	87-012-145-080		C-CAP,S 270P-50 J CH				
C949	87-012-145-080		C-CAP,S 270P-50 J CH				
C950	87-012-145-080		C-CAP,S 270P-50 J CH				
C951	87-012-145-080		C-CAP,S 270P-50 J CH				
C952	87-012-145-080		C-CAP,S 270P-50 J CH				
CN101	87-099-720-010		CONN,30P TYK-B(P)				
CN104	87-A60-136-010		CONN,11P V FE				
CN1000	87-A60-133-010		CONN,8P V FE				
CNA302	8B-MA5-652-010		CONN ASSY,2P V (100MM)				
FFC104	88-911-151-110		FF-CABLE,11P 1.25 15				
FFC1000	88-908-271-210		FF-CABLE,8P 1.25 27				
FL101	8B-MA5-671-010		FL,BJ823GNK				
L101	87-A50-333-010		COIL,OSC 9.43MHZ				
LED131	87-A40-317-080		LED,SLR-342VCT31 RED				
LED202	87-A41-056-040		LED,HLMF-D405 ORANGE				
LED205	87-A41-056-040		LED,HLMF-D405 ORANGE				
LED210	87-A41-056-040		LED,HLMF-D405 ORANGE				
LED212	87-A41-056-040		LED,HLMF-D405 ORANGE				
LED682	87-A41-056-040		LED,HLMF-D405 ORANGE				
LED683	87-A41-056-040		LED,HLMF-D405 ORANGE				
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LED685	87-A41-056-040		LED,HLMF-D405 ORANGE				
LED698	87-A41-056-040		LED,HLMF-D405 ORANGE				
S401	87-A90-095-080		SW, TACT EVQ11G04M				
S402	87-A90-095-080		SW, TACT EVQ11G04M				
S405	87-A90-095-080		SW, TACT EVQ11G04M				
S421	87-A92-071-010		SW, RTRY EC12E24508-30MM				
S651	87-A91-542-010		SW, RTRY EC12E12504				
S805	87-A90-095-080		SW, TACT EVQ11G04M				
S806	87-A90-095-080		SW, TACT EVQ11G04M				
S807	87-A90-095-080		SW, TACT EVQ11G04M				
S808	87-A90-095-080		SW, TACT EVQ11G04M				
S809	87-A90-095-080		SW, TACT EVQ11G04M				
S821	87-A90-095-080		SW, TACT EVQ11G04M				
S822	87-A90-095-080		SW, TACT EVQ11G04M				
S823	87-A90-095-080		SW, TACT EVQ11G04M				
S825	87-A90-095-080		SW, TACT EVQ11G04M				
S826	87-A90-095-080		SW, TACT EVQ11G04M				
S827	87-A90-095-080		SW, TACT EVQ11G04M				
KEY CD C.B							
				CNA702	87-A60-666-010		CONN,2P H 2MM JMT
				S751	87-A90-095-080		SW, TACT EVQ11G04M
				S752	87-A90-095-080		SW, TACT EVQ11G04M
				S753	87-A90-095-080		SW, TACT EVQ11G04M
				S754	87-A90-095-080		SW, TACT EVQ11G04M
				S755	87-A90-095-080		SW, TACT EVQ11G04M
PT C.B							
				CN101	87-A61-110-010		CONN,9P V TID-A
				F1	87-035-492-010		FUSE,6.3A 125V T237<U>
				F1	87-035-458-010		FUSE,4A 250V T218<EZ, K>
				FC1	87-033-213-080		FUSE CLAMP,PFC5000<U>
				FC1	87-033-147-010		FUSE CLAMP,MT-20<EZ, K>
				FC2	87-033-213-080		FUSE CLAMP,PFC5000<U>
				FC2	87-033-147-010		FUSE CLAMP,MT-20<EZ, K>
				PT1	8B-MA5-661-010		PT,BMA-5 U<U>
				PT1	8B-MA5-662-010		PT,BMA-5 EZ<EZ, K>
				PT2	8B-MA6-671-010		PT,SUB BMA U (VRK)<U>
				PT2	8B-MA6-675-010		PT,SUB BMA E (VRK)<EZ, K>
				RY102	87-A91-418-010		RELAY,AC 12V G5PA-1-M
				T1	87-A60-317-010		TERMINAL,1P MSC
				T2	87-A60-317-010		TERMINAL,1P MSC
DECK C.B							
				CN1	87-099-753-010		CONN,11P H 9604
				CNA301	86-ZM3-604-210		CONN ASSY,3P-PB
				CNA351	86-ZM3-605-110		CONN ASSY,8P-RPB
				SFR1	87-024-581-010		SFR,3.3K H KVVSF637A
				SW1	87-A90-673-010		SW,MICRO ESE11SH1C
				SW2	87-A90-673-010		SW,MICRO ESE11SH1C
				SW3	87-A90-673-010		SW,MICRO ESE11SH1C
				SW4	87-A90-673-010		SW,MICRO ESE11SH1C
				SW5	87-A90-673-010		SW,MICRO ESE11SH1C
				SOL1	82-ZM3-627-010		SOL ASSY,27 SO
				SOL2	82-ZM3-627-010		SOL ASSY,27 SO

チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

Chip Resistor Part Coding



チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード Resistor Code : A
				外形／Form	L	W	t	
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION



E C B

KTA1266GR
KTC3198GR
CSC4115BC
CDA1585BC
CC5551



E C B

2SA1981Y
2SC5343G
2SA1980G



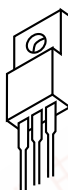
B C E

FN1016
FP1016
2SB1344
2SD2025



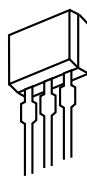
G D S

2SK2937



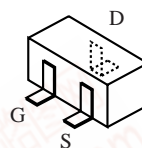
B C E

CSB1370EF



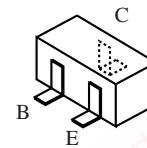
S D G

2SJ460
2SK2541



G S D

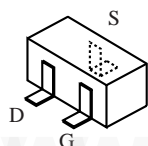
2SK2158



B E C

2SA1235F
2SC2714O
2SC3052F
CMBT5551
CMBT5401
CSD1306E

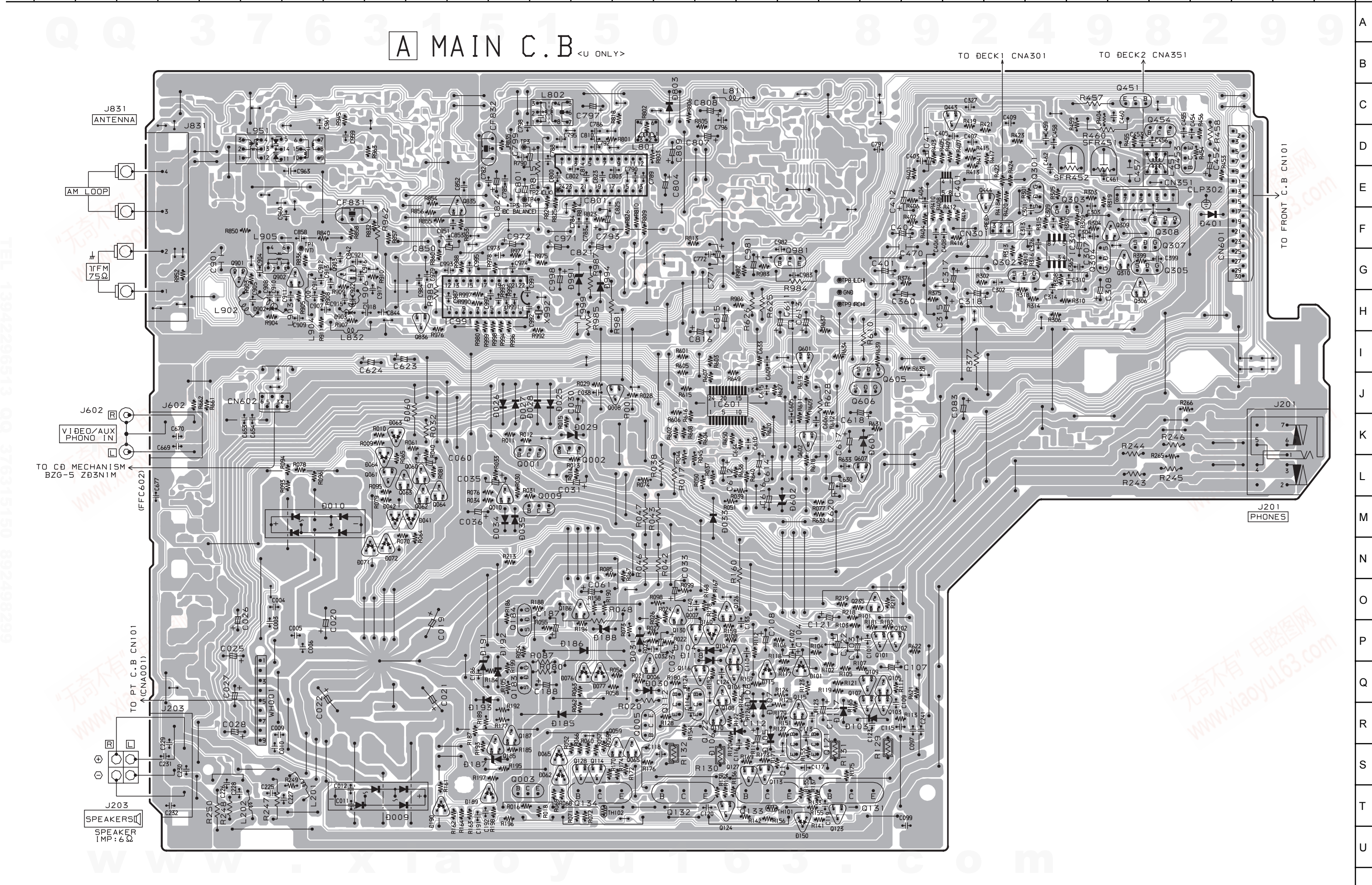
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DTA123EKA
KRA102S
KRA107S
KRC104S
DTC114EKA



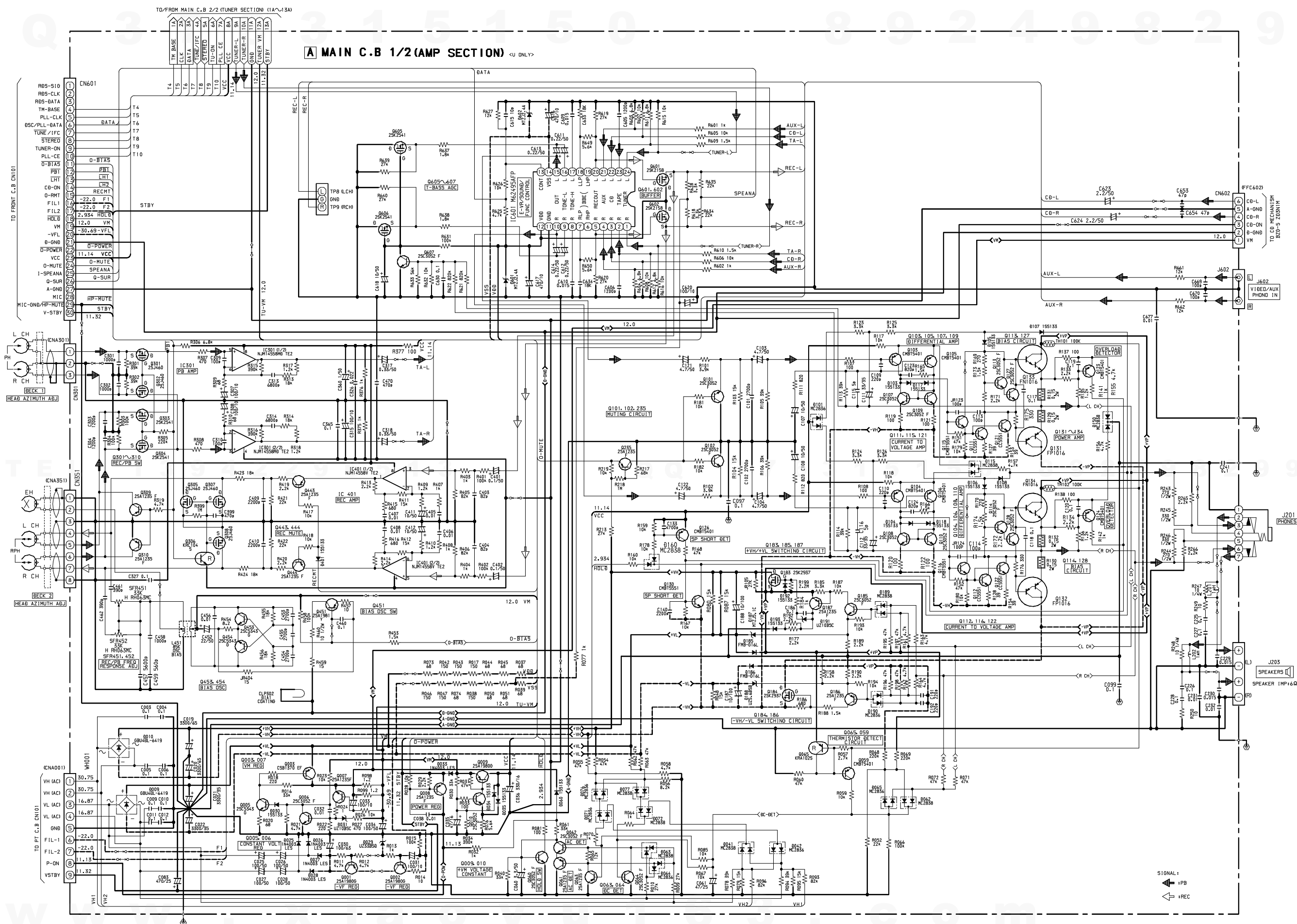
S D G

2SK360E

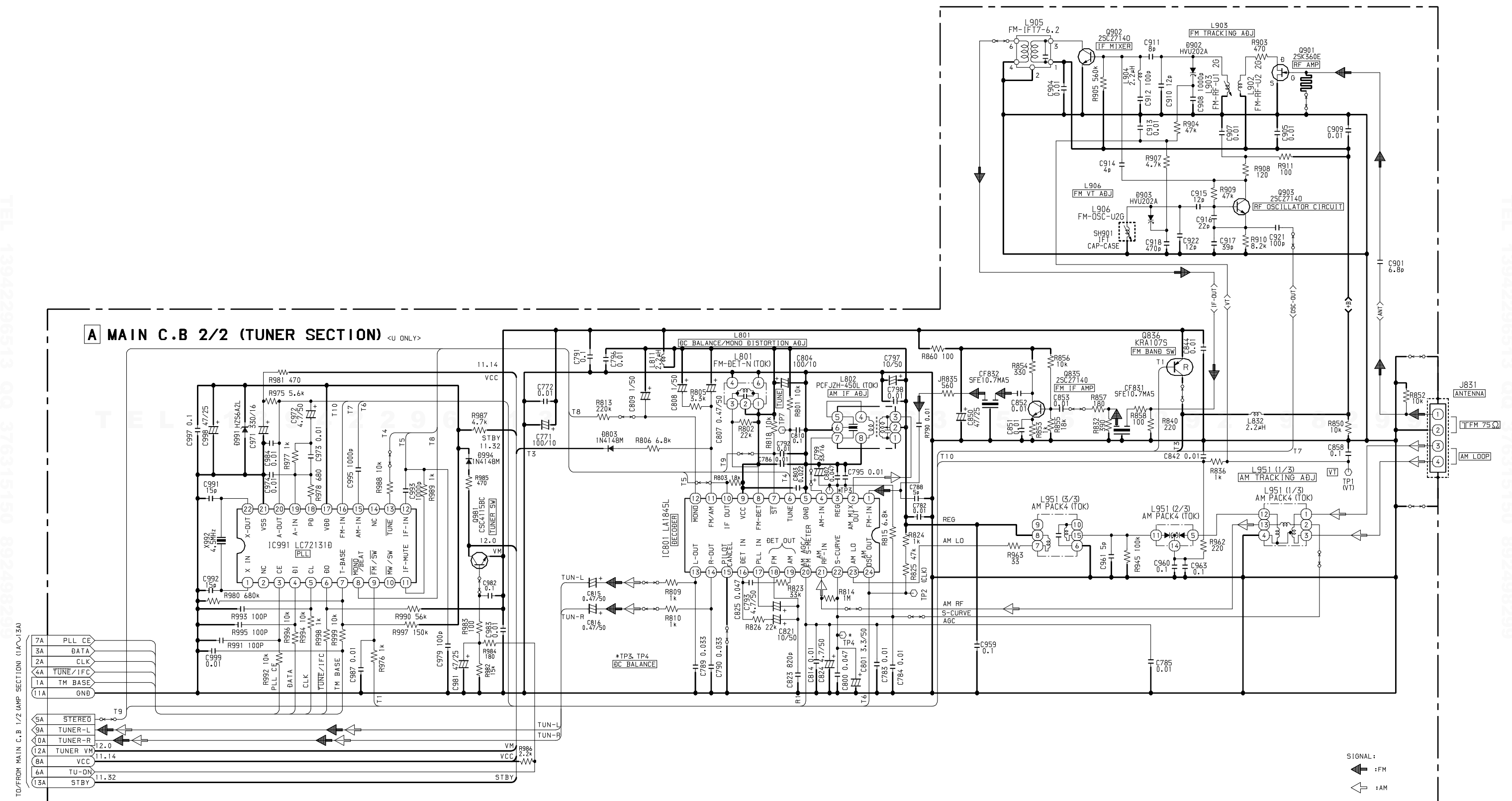
32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	---	---	---	---	---	---	---	---	---



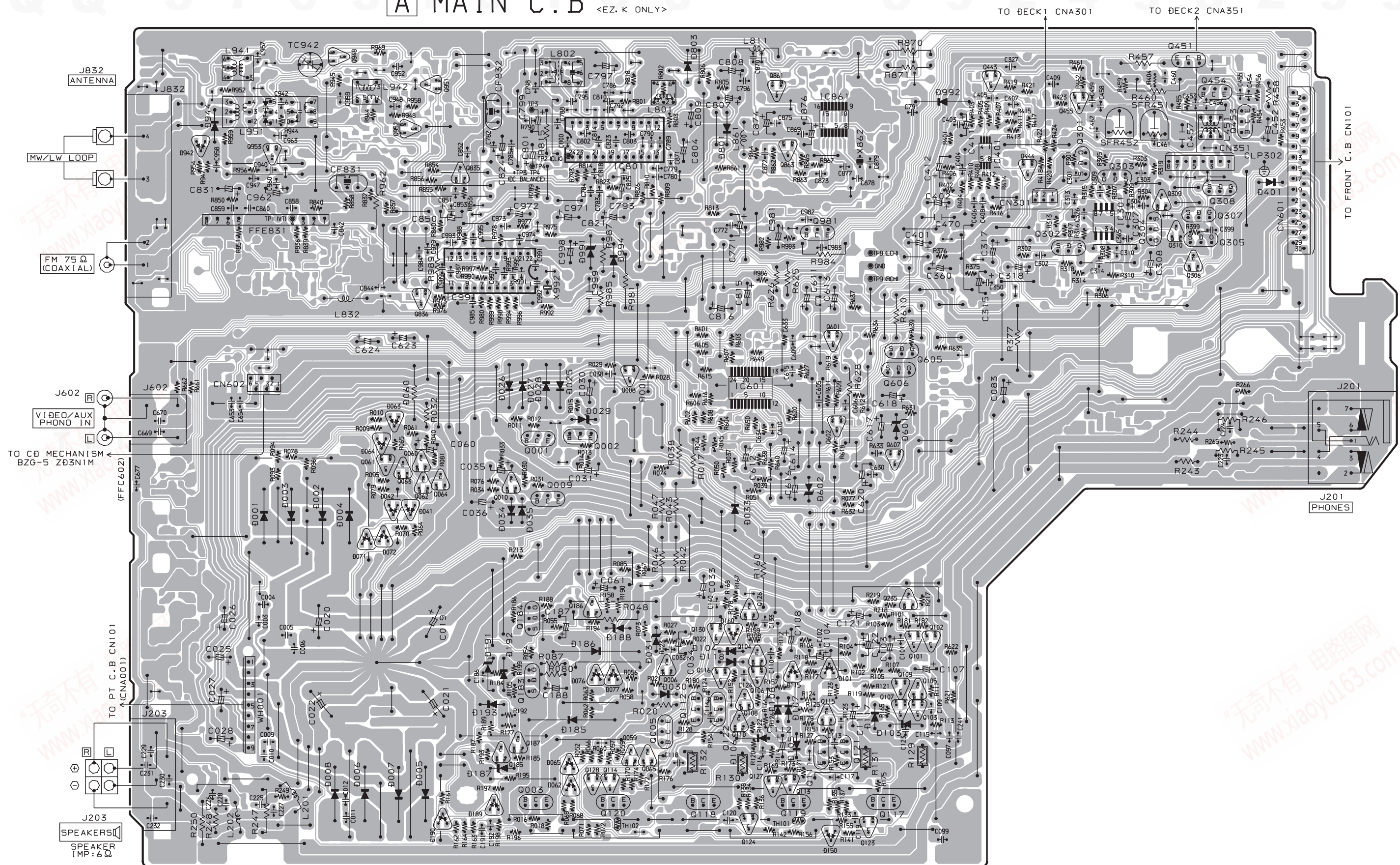
SCHEMATIC DIAGRAM-1 (MAIN 1/2:AMP SECTION:U)



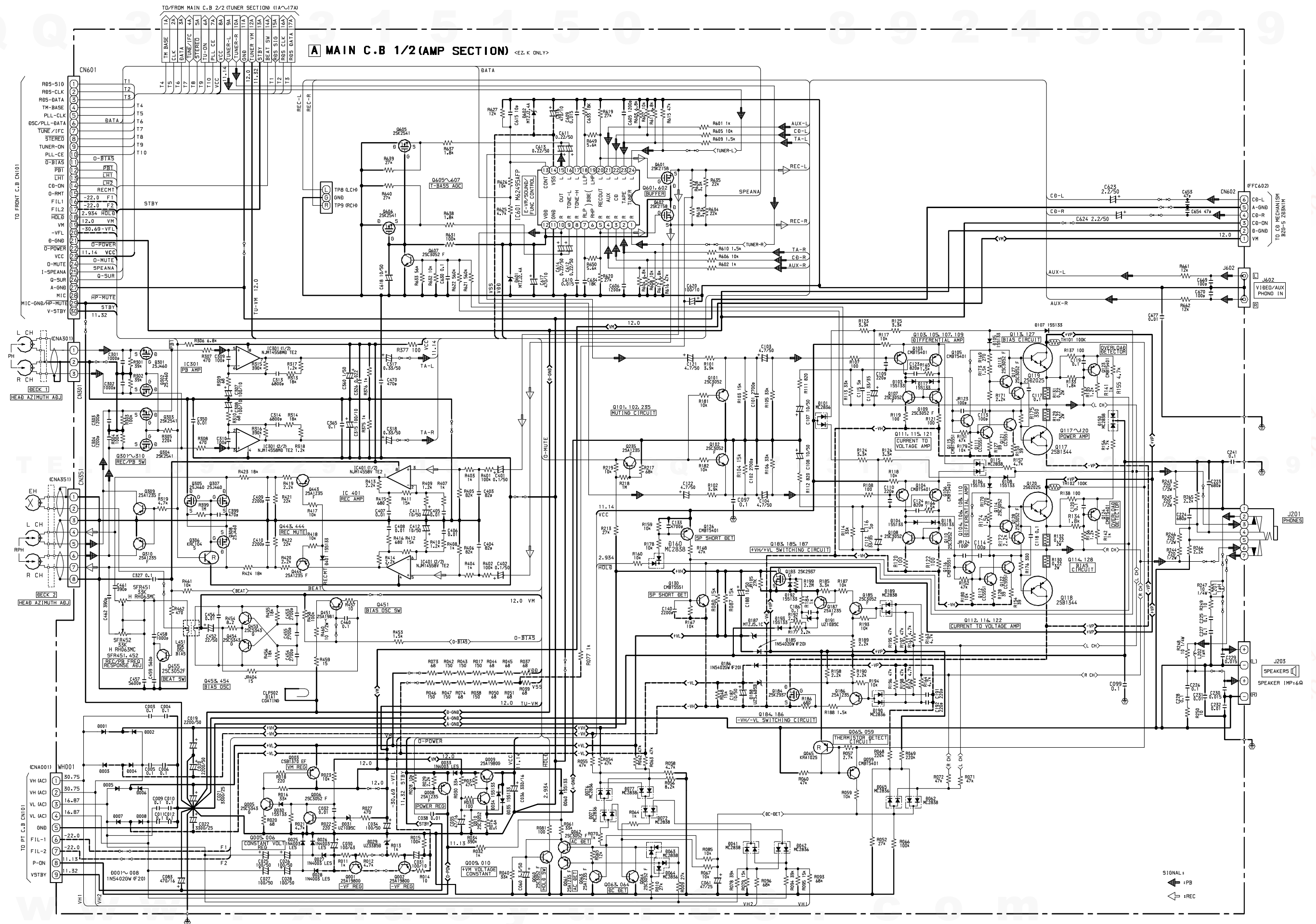
SCHEMATIC DIAGRAM-2 (MAIN 2/2:TUNER SECTION:U)

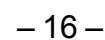


A MAIN C.B. <EZ, K ONLY>

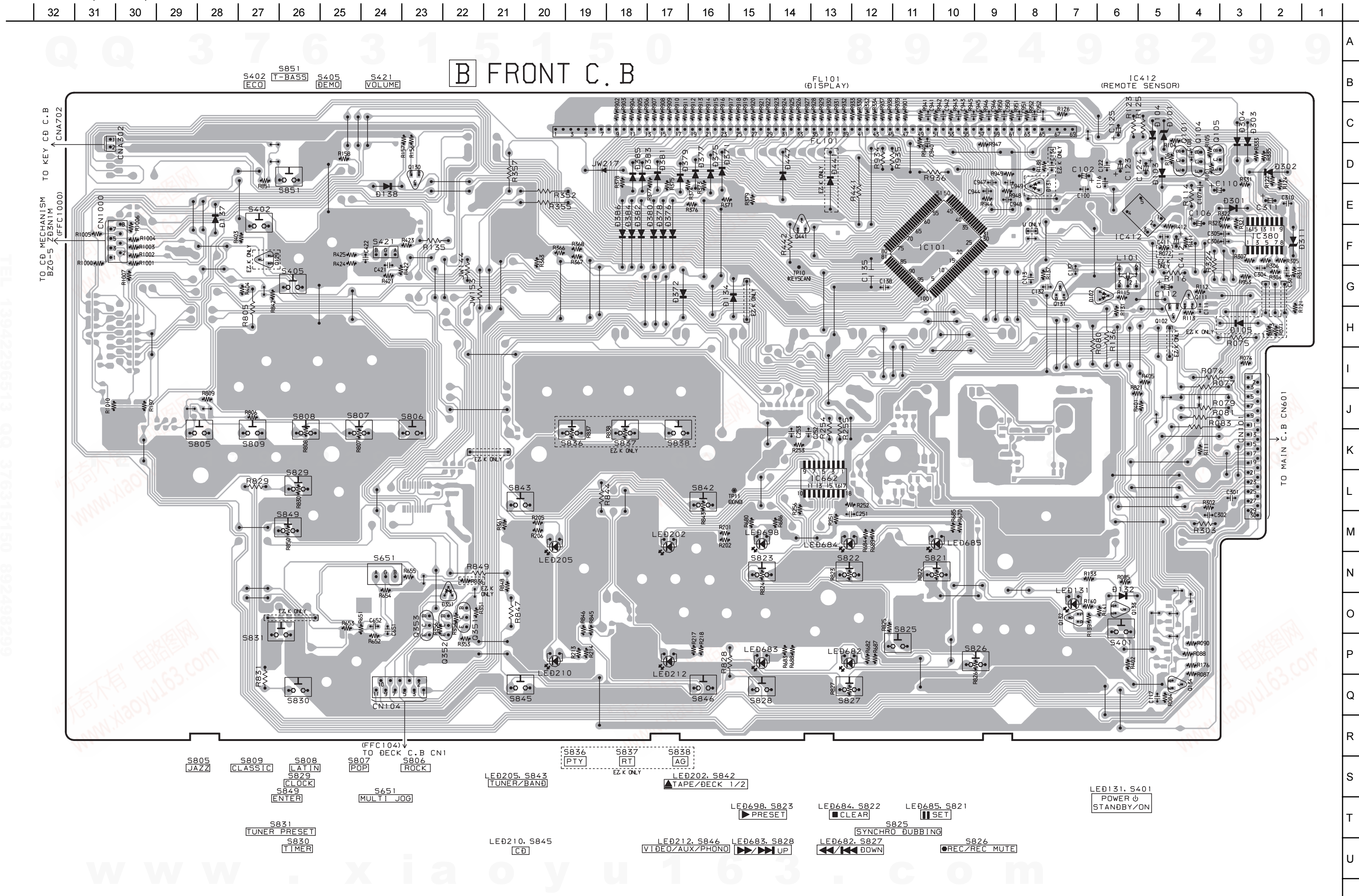


SCHEMATIC DIAGRAM-3 (MAIN 1/2:AMP SECTION: EZ, K)

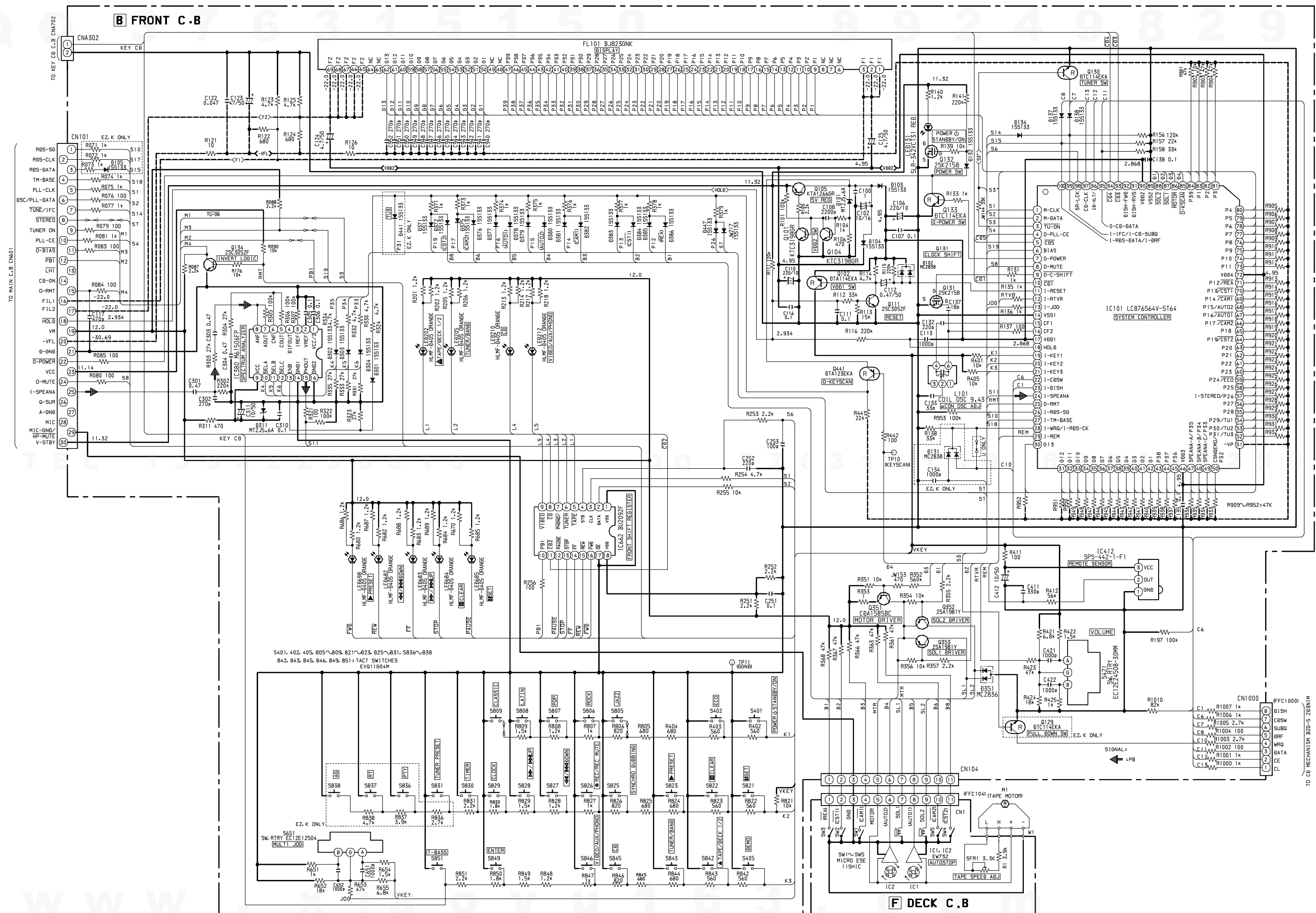




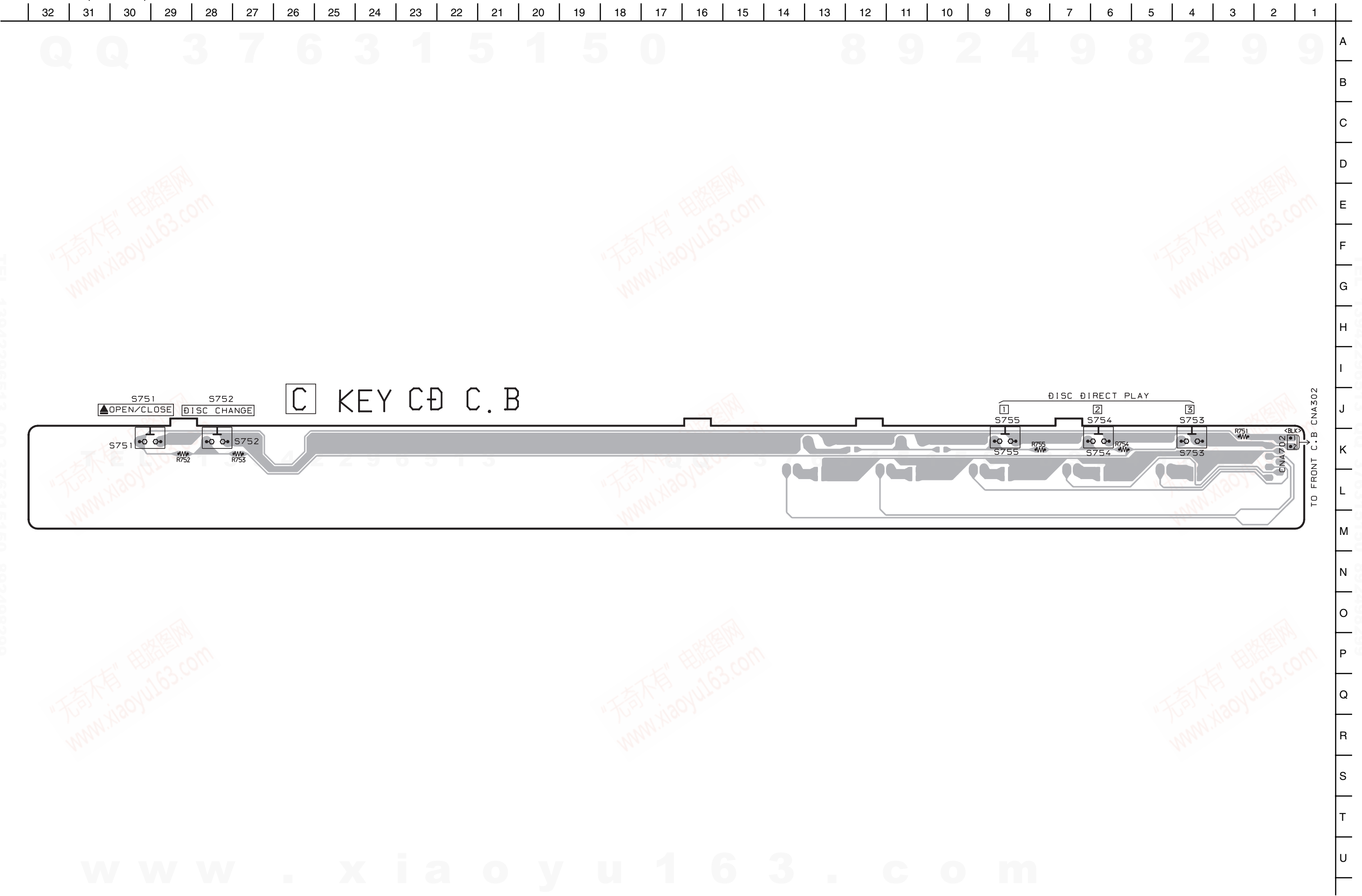
WIRING - 3 (FRONT)



SCHEMATIC DIAGRAM – 5 (FRONT / DECK)



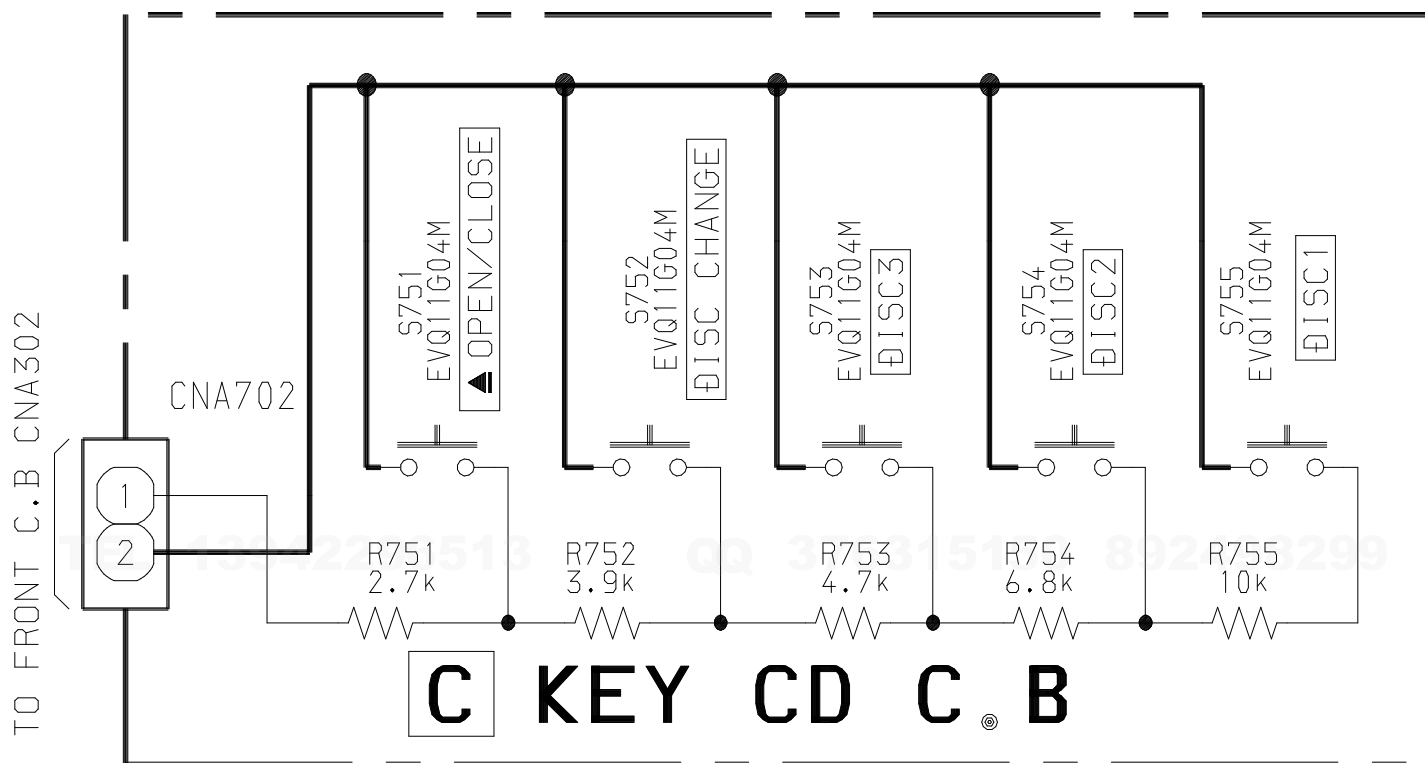
WIRING – 4 (KEY CD)



SCHEMATIC DIAGRAM – 6 (KEY CD)

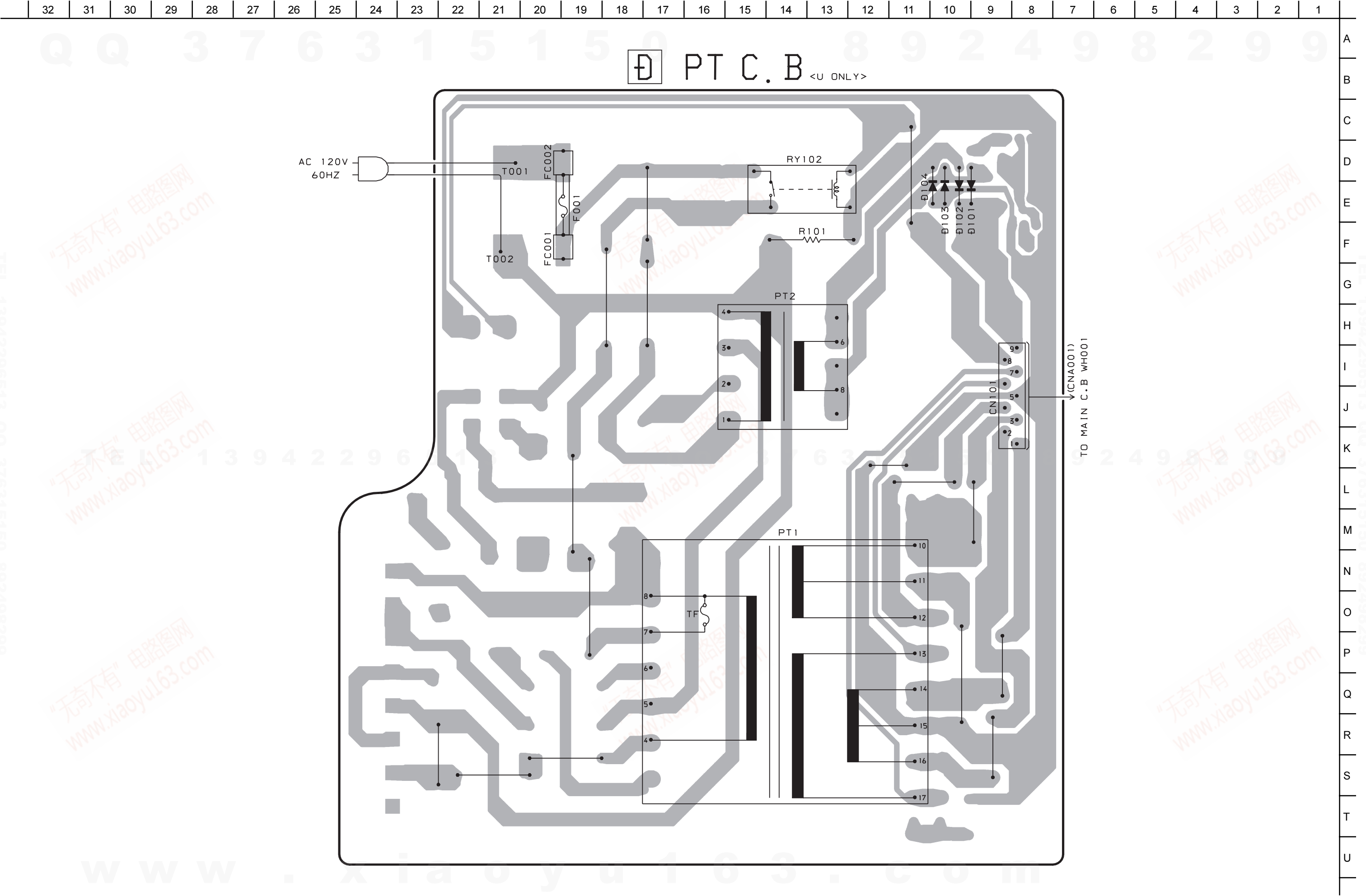
QQ 376315150

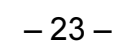
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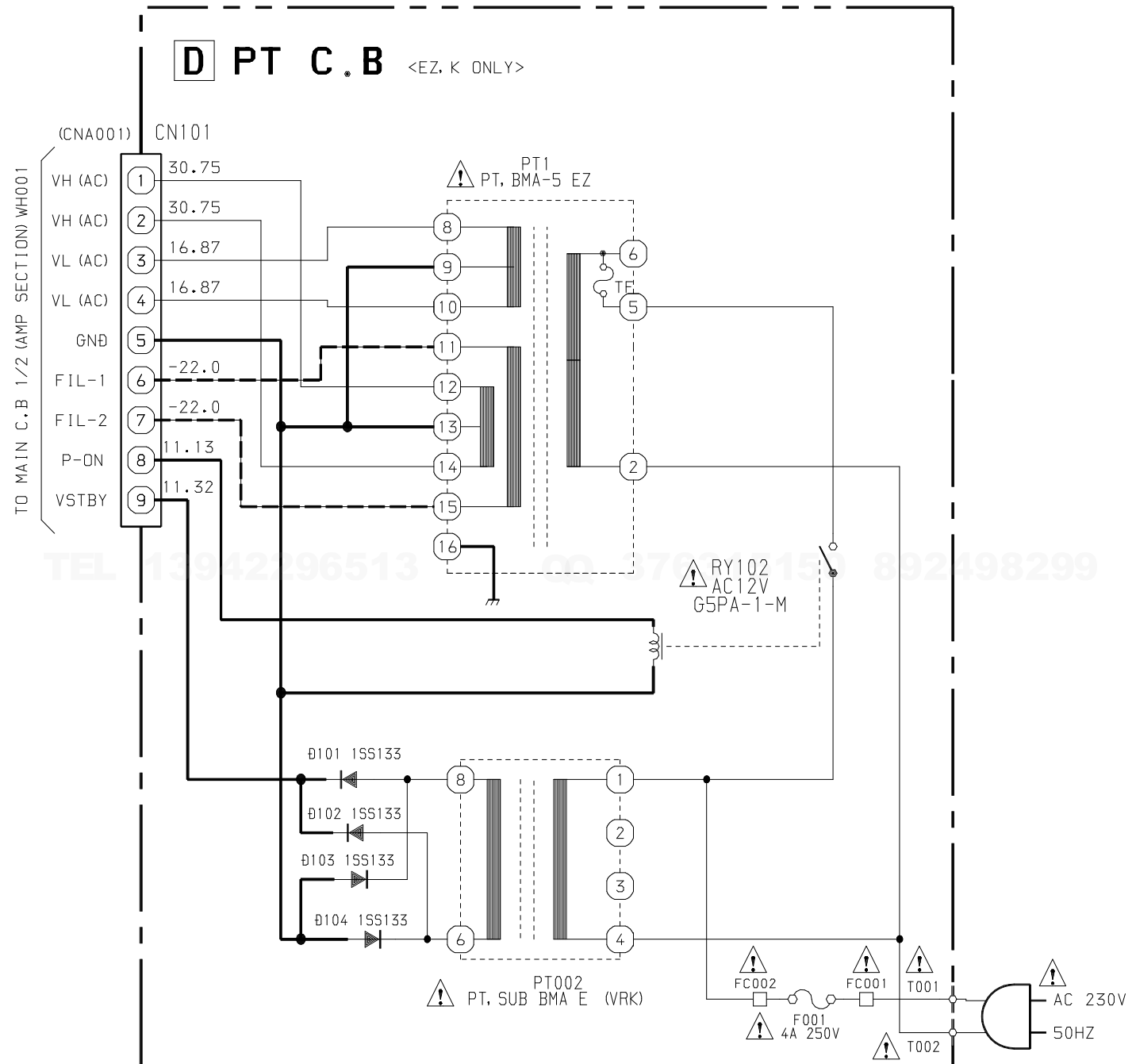
www.xiaoyu163.com

WIRING – 5 (PT : U)



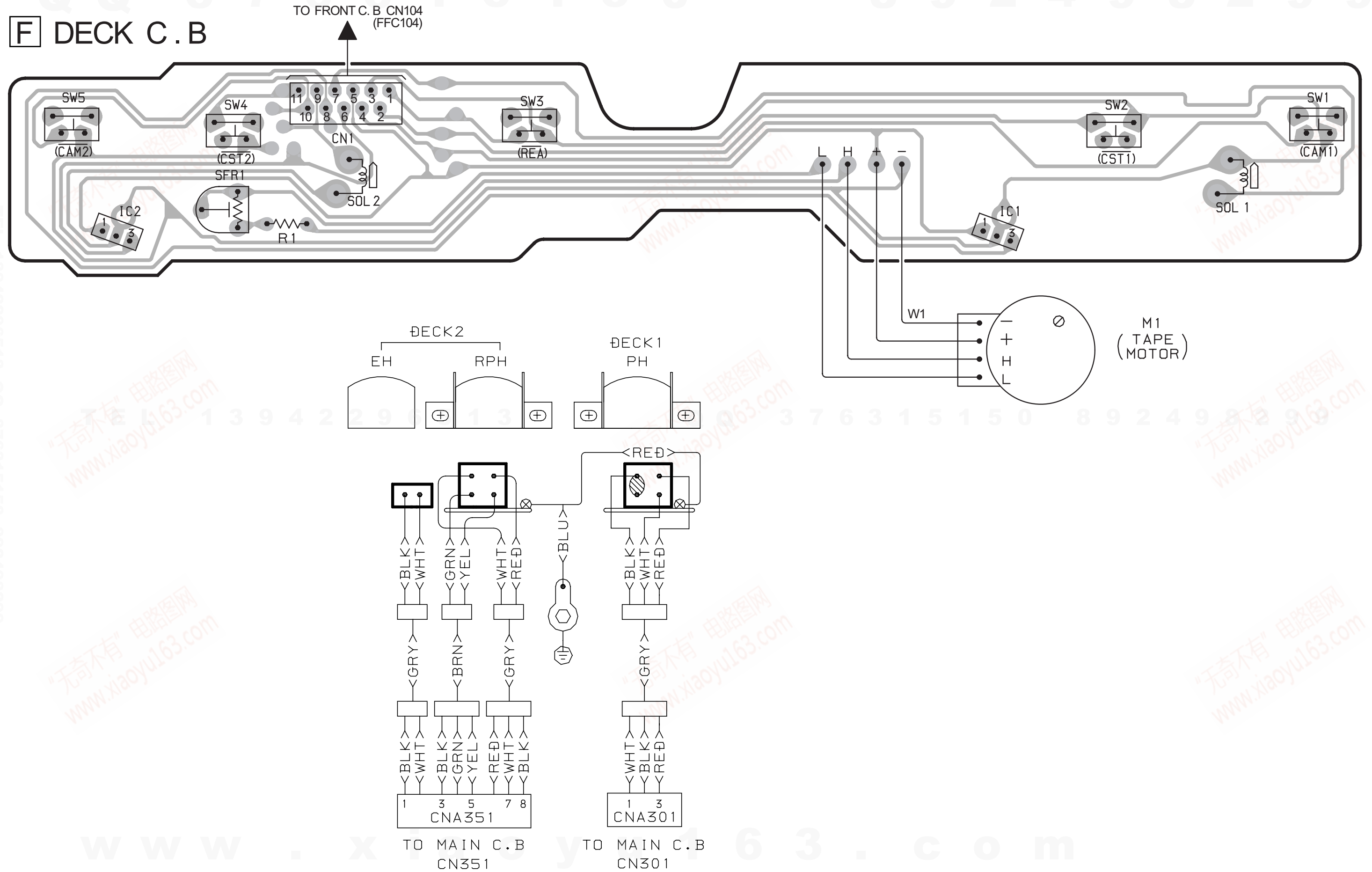


SCHEMATIC DIAGRAM – 8 (PT : EZ , K)



WIRING - 7 (DECK)

F DECK C.B



IC DESCRIPTION

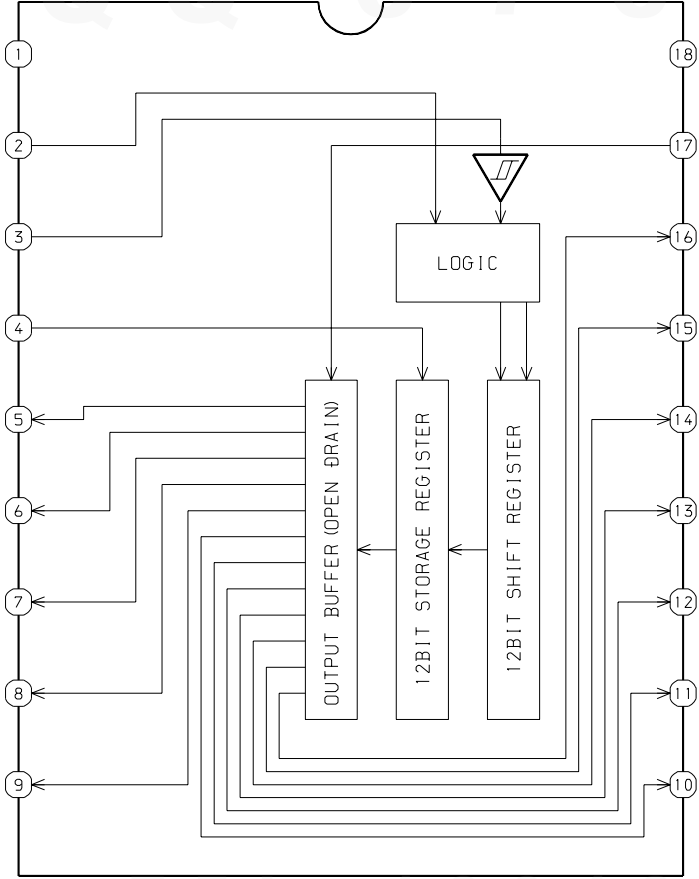
IC, LC876564V-5T64

Pin No.	Pin Name	I/O	Description
1	M-CLK	O	Common serial clock.
2	M-DATA	O	Common serial data.
3	TU-ON	O	Tuner supply control. H: ON.
4	O-PLL-CE	O	Tuner PLL IC chip enable.
5	CD5	O	CD dish LED5. L: ON.
6	BIAS	O	Recording bias control. L: ON.
7	O-POWER	O	Audio power ON/OFF.
8	O-MUTE	O	System mute ON/OFF.
9	O-C-SHIFT	O	Clock shift output. L: Shift.
10	CD1	O	CD dish LED1. L: ON.
11	I-RESET	I	System reset input.
12	I-RTVR	I	Volume rotary encoder.
13	I-JOG	I	Dial jog rotary encoder.
14	VSS1	–	Connected to GND.
15	CF1	I	Oscillator circuit input.
16	CF2	O	Oscillator circuit output.
17	VDD1	–	Power supply.
18	HOLD	I	System hold input.
19 ~ 21	I-KEY1 ~ 3	I	Tact key matrix 1 ~ 3 input.
22	I-CDSW	I	CD MECHA SW matrix input.
23	I-DISH	I	CD turntable photo sensor.
24	I-SPEANA	I	Spectrum analyzer level detection.
25	O-RMT	O	Record ON/OFF control. H: ON.
26	I-RDS-SG	I	RDS Signal level input. <EZ,K>
27	I-TM-BASE	I	Time base clock input.
28	I-WRQ/I-RDS-CK	I	CD WRQ input/Tuner RDS clock input. <EZ,K>
29	I-REM	I	Remote control signal input.
30 ~ 42	G13 ~ G1	O	FL grid G13 ~ G1 output.
43 ~ 45	P38 ~ P36	O	FL segment P38 ~ P36 output.
46	VDD3	–	Power supply.
47	SPEANA-A/P35	O	Spectrum analyzer band control A/FL segment P35 output.
48	SPEANA-B/P34	O	Spectrum analyzer band control B/FL segment P34 output.
49	SPEANA-C/P33	O	Spectrum analyzer band control C/FL segment P33 output.
50	CSNDEMO/P32	I/O	Initial DEMO mode detect. H: OFF/FL segment P32 output.
51	–VP	–	Power supply for FL input.
52	P31/TU3	O/I	FL segment P31 output/TUNER series, TU3 select.
53	P30/TU2	O/I	FL segment P30 output/TUNER series, TU2 select.
54	P29/TU1	O/I	FL segment P29 output/TUNER series, TU1 select.
55	P28	O	FL segment P28 output.
56	P27	O	FL segment P27 output.
57	I-STEREO/P26	I/O	Tuner stereo signal input/FL segment P26 output.
58	P25	O	FL segment P25 output.

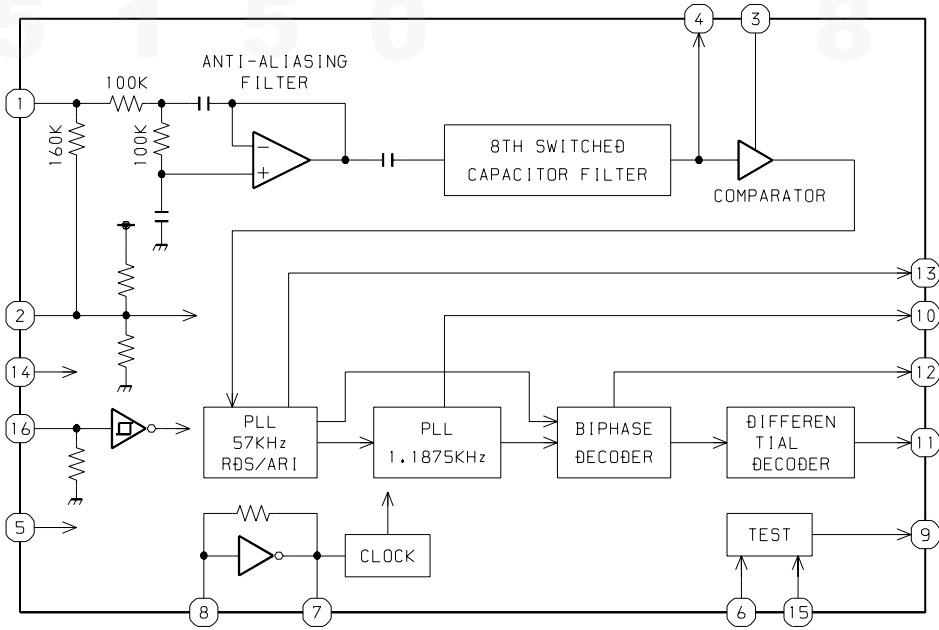
Pin No.	Pin Name	I/O	Description
59	P24/ $\overline{\text{ECO}}$	O/I	FL segment P24 output/ECO setting switching input. H: ECO mode off.
60 ~ 63	P23 ~ P20	O	FL segment P23 ~ P20 output.
64	P19/ $\overline{\text{CST2}}$	O/I	FL segment P19 output/Deck 2 cassette detection. L: YES.
65	P18	O	FL segment P18 output.
66	P17/ $\overline{\text{CAM2}}$	O/I	FL segment P17 output/Deck 2 cam SW input. L: ON.
67	P16/ $\overline{\text{AUTO1}}$	O/I	FL segment P16 output/Deck 1 auto stop input.
68	P15/ $\overline{\text{AUTO2}}$	O/I	FL segment P15 output/Deck 2 auto stop input.
69	P14/ $\overline{\text{CAM1}}$	O/I	FL segment P14 output/Deck 1 cam SW input. L: ON.
70	P13/ $\overline{\text{CST1}}$	O/I	FL segment P13 output/Deck 1 cassette detection SW. L: YES.
71	P12/ $\overline{\text{REA}}$	O/I	FL segment P12 output/Deck 2 side-A recordable SW. L: REC.
72	VDD4	–	Power supply.
73 ~ 83	P11 ~ P1	O	FL segment P11 ~ P1 output.
84	P39	O	FL segment P39 output.
85	$\overline{\text{O-KSCAN}}$	O	Keyscan output. L: IN.
86	$\overline{\text{MOTOR}}$	O	Deck motor ON/OFF control. L: ON.
87	$\overline{\text{SOL1}}$	O	Deck 1 solenoid control. L: ON.
88	$\overline{\text{SOL2}}$	O	Deck 2 solenoid control. L: ON.
89	VSS2	–	Connected to GND.
90	VDD2	–	Power supply.
91	DISH-RVS	O	CD dish reverse output. H: REV(2). (Not used)
92	DISH-FWD	O	CD dish forward output. H: FWD(2). (Not used)
93	$\overline{\text{CD3}}$	O	CD dish LED3. L: ON.
94	$\overline{\text{CD4}}$	O	CD dish LED4. L: ON.
95	O-CD-DATA	O	Serial data output to CD.
96	CD-XLT	O	CD DSP serial latch output.
97	$\overline{\text{CD-CLK}}$	O	CD DSP serial clock output.
98	SR-LCK	O	Shift register IC latch clock.
99	I-IFC/I-CD-SUBQ	I	Tuner IF count data input/CD SUBQ serial data input.
100	I-RDS-DATA/ I-CD-DRF	I	RDS serial data input. <EZ,K>/ CD RF detect input.

IC BLOCK DIAGRAM

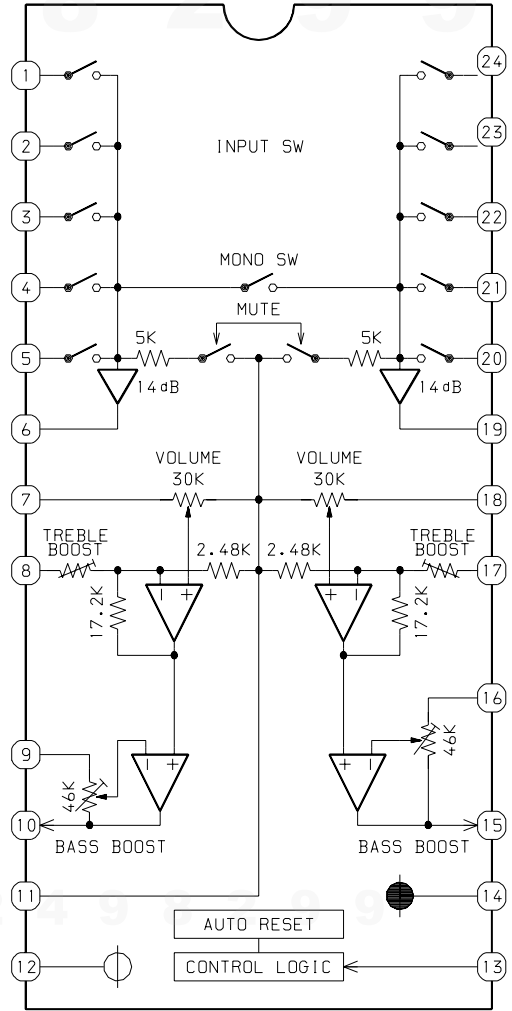
IC. BU2092F



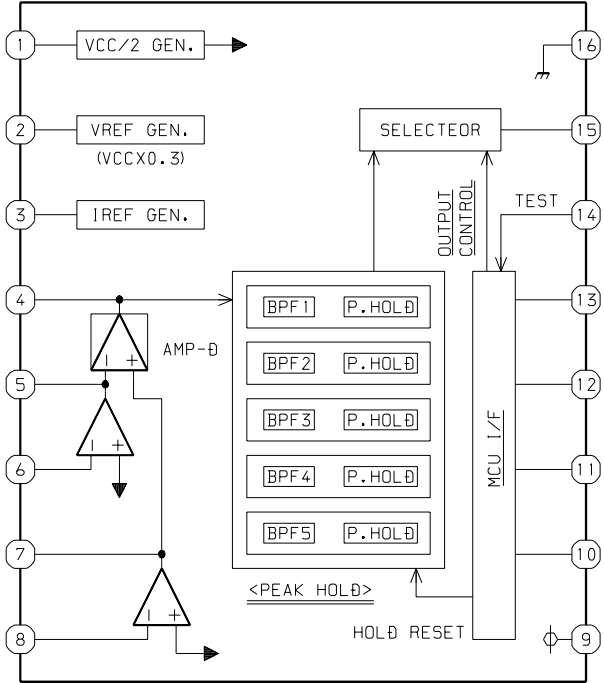
IC. BU1920FS



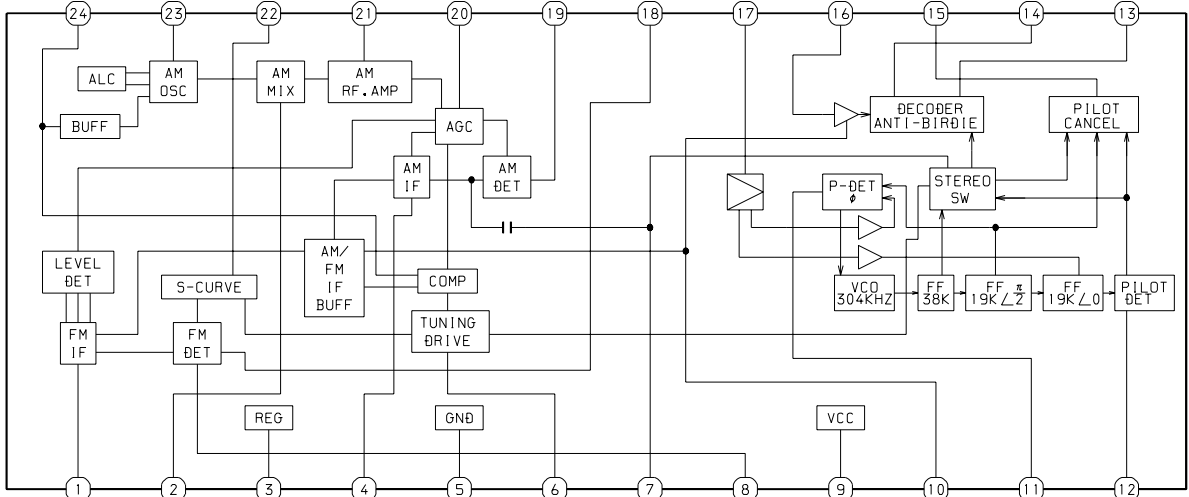
IC. M62495AFP



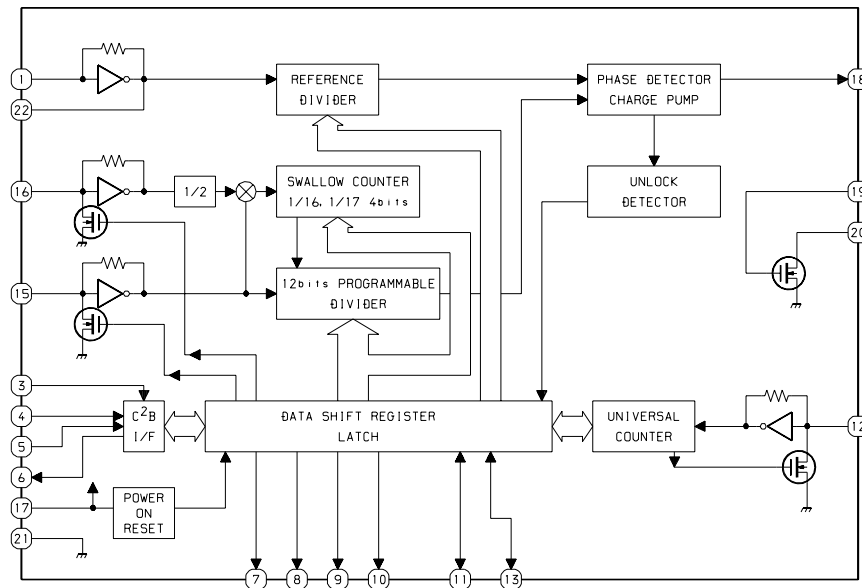
IC. M61506FP



IC. LA1845L

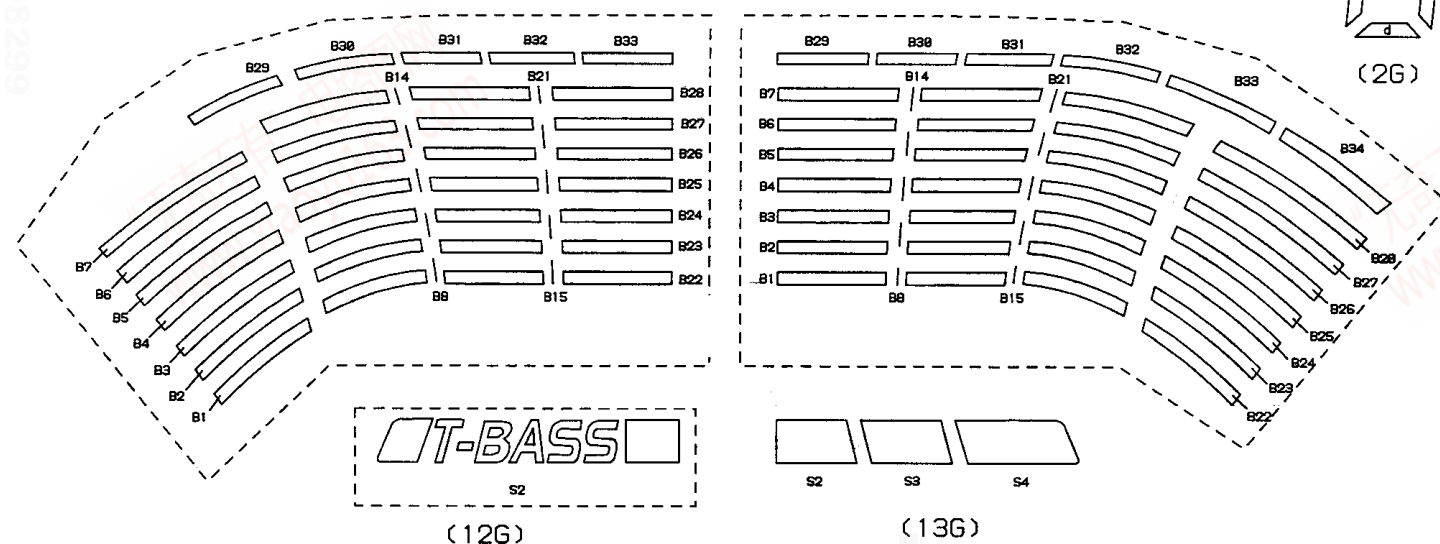
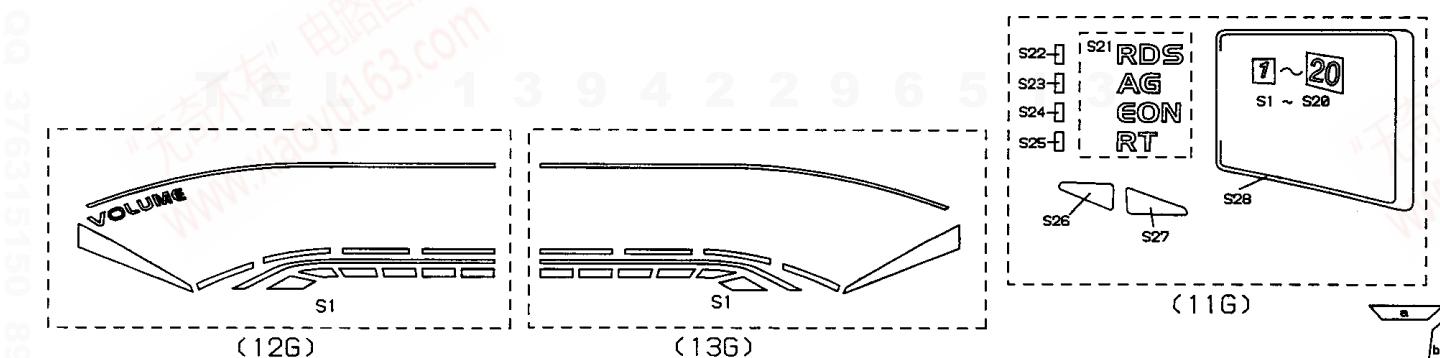
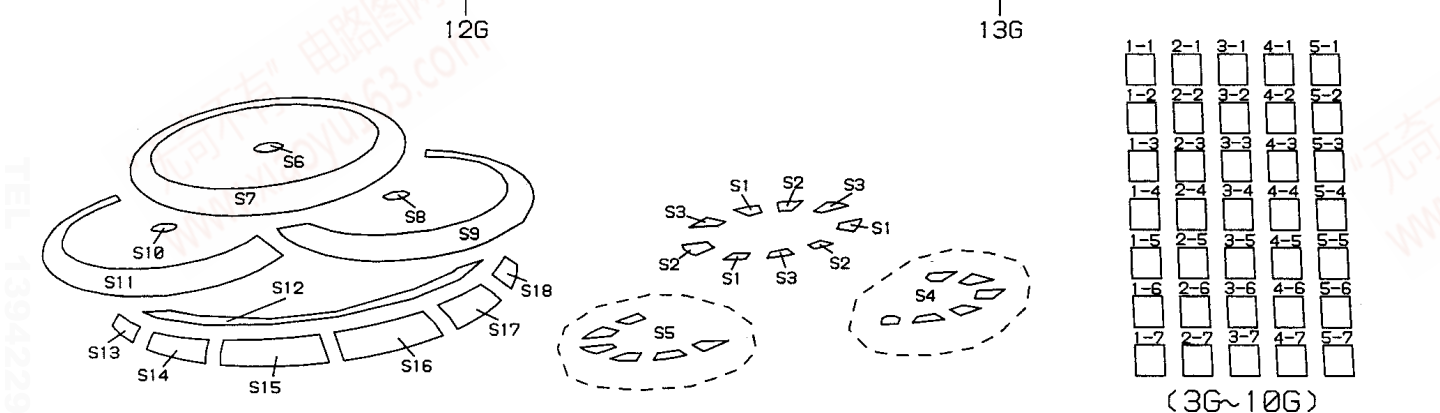
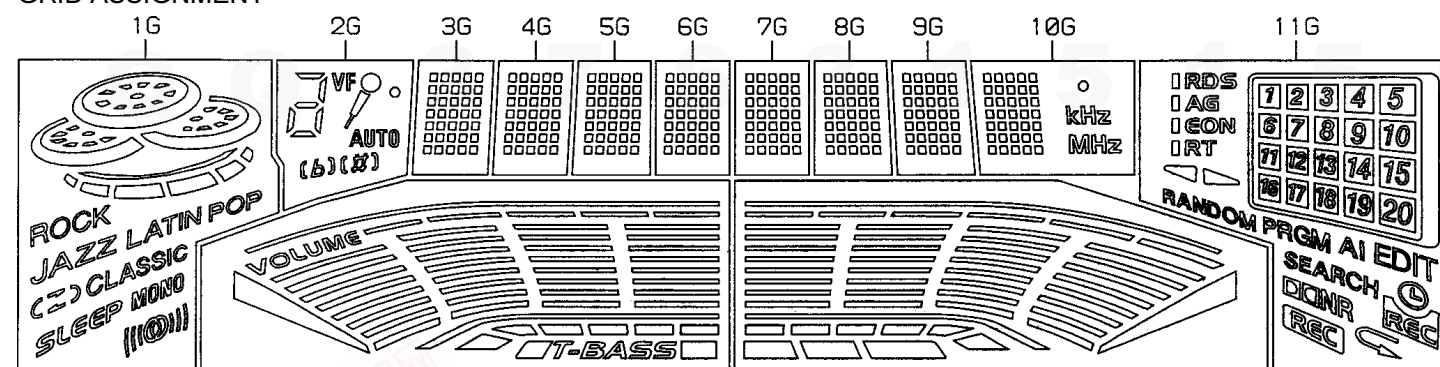


IC. LC72131D



FL (BJ823GNK) GRID ASSIGNMENT & PIN CONNECTION & ANODE CONNECTION

GRID ASSIGNMENT



PIN CONNECTION

[illegible]

ANODE CONNECTION

	13G	12G	11G	10G	9G~3G	2G	1G
P1	S1	S1	S28	1-1	1-1	-	
P2	S2	S2	S1	2-1	2-1	-	
P3	S3	-	S2	3-1	3-1	-	
P4	S4	-	S3	4-1	4-1	-	
P5	B1	B1	S4	5-1	5-1	-	
P6	B8	B8	S5	1-2	1-2	-	
P7	B15	B15	S6	2-2	2-2	-	
P8	B22	B22	S7	3-2	3-2	-	
P9	B2	B2	S8	4-2	4-2	-	
P10	B9	B9	S9	5-2	5-2	-	
P11	B16	B16	S10	1-3	1-3	-	
P12	B23	B23	S11	2-3	2-3	-	S5
P13	B3	B3	S12	3-3	3-3	-	S10
P14	B10	B10	S13	4-3	4-3	-	S11
P15	B17	B17	S14	5-3	5-3	-	S6
P16	B24	B24	S15	1-4	1-4		S1
P17	B4	B4	S16	2-4	2-4		S3
P18	B11	B11	S17	3-4	3-4		S2
P19	B18	B18	S18	4-4	4-4	a	S7
P20	B25	B25	S19	5-4	5-4	b	S13
P21	B5	B5	S20	1-5	1-5	-	S14
P22	B12	B12	S21	2-5	2-5	g	S15
P23	B19	B19		3-5	3-5	c	S16
P24	B26	B26		4-5	4-5	e	S17
P25	B6	B6	S22	5-5	5-5	d	S18
P26	B13	B13	S23	1-6	1-6		S12
P27	B20	B20	S24	2-6	2-6		S4
P28	B27	B27	S25	3-6	3-6		S8
P29	B7	B7	S26	4-6	4-6	-	S9
P30	B14	B14	S27	5-6	5-6	-	-
P31	B21	B21		1-7	1-7	-	-
P32	B28	B28		2-7	2-7	-	-
P33	B29	B29		3-7	3-7	-	-
P34	B30	B30		4-7	4-7	-	-
P35	B31	B31		5-7	5-7	-	-
P36	B32	B32			-	-	-
P37	B33	B33			-	-	-
P38	B34	-			-	-	-

ADJUSTMENT < TUNER / DECK / FRONT >

< TUNER SECTION >

1. Clock Frequency Check
Settings : • Test point : TP2 (CLK)
Method : Set to AM 1710 kHz<U> or MW 1602 kHz<EZ,K> and check that the test point is $2160 \text{ kHz} \pm 45 \text{ kHz}$ <U> or $2025 \text{ kHz} \pm 45 \text{ kHz}$ <EZ,K>.
2. AM VT Check<U>
Settings : • Test point : TP1 (VT)
Method : Set to AM 1710 kHz and check that the test point is less than 8.5 V. Then set to AM 530 kHz and check that the test point is more than 0.6 V.
3. MW VT Check<EZ,K>
Settings : • Test point : TP1 (VT)
Method : Set to MW 1602 kHz and check that the test point is less than 8.0 V. Then set to MW 531 kHz and check that the test point is more than 0.6 V.
4. LW VT Adjustment<EZ,K>
Settings : • Test point : TP1 (VT)
• Adjustment location : L942
Method : Set to LW 144 kHz and adjust L942 so that the test point becomes $1.3 \text{ V} \pm 0.05 \text{ V}$. Then set to LW 290 kHz and check that the test point is less than 8.0 V.
5. FM VT Adjustment<U>
Settings : • Test point : TP1 (VT)
• Adjustment location : L906
Method : Set to FM 108.0 MHz and adjust L906 so that the test point becomes $7.0 \text{ V} \pm 0.1 \text{ V}$. Then set to FM 87.5 MHz and check that the test point is more than 0.4 V.
6. FM VT Check<EZ,K>
Settings : • Test point : TP1 (VT)
Method : Set to FM 108.0 MHz and check that the test point is less than 8.0 V. Then set to FM 87.5 MHz and check that the test point is more than 0.5 V.
7. AM Tracking Adjustment<U>
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Adjustment location : L951 (1/3)
Method : Set to AM 1000 kHz and adjust L951 (1/3) so that the test point becomes maximum.
8. MW Tracking Adjustment<EZ,K>
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Adjustment location : L951 (1/3)
Method : Set to MW 999 kHz and adjust L951 (1/3) so that the test point becomes maximum.
9. LW Tracking Adjustment<EZ,K>
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Adjustment location : L941 144 kHz
TC942 290 kHz
Method : Set up TC942 to center before adjustment. The level at 144 kHz is adjusted to MAX by L941. Then the level at 290 kHz is adjusted to MAX by TC942.
10. FM Tracking Adjustment<U>
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Adjustment location : L903
Method : Set to FM 87.5 MHz and adjust L903 so that the test point is less than 9dB μ V.
11. FM Tracking Check<EZ,K>
Settings : • Test point : TP8 (Lch), TP9 (Rch)
Method : Set to FM 98.0 MHz and check that the test point is less than 13dB μ V.
12. AM IF Adjustment
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Adjustment location : L802 450 kHz
13. DC Balance / Mono Distortion Adjustment
Settings : • Test point : TP3, TP4 (DC balance)
• Adjustment location : L801
• Input level : 60dB μ V
Method : Set to FM 98.0 MHz and adjust L801 so that the voltage between TP3 and TP4 is $0 \text{ V} \pm 500 \text{ mV}$. Next, check that the distortion is less than 1.2%.
14. Output Level Check
<AM / MW>
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Input level : 74dB μ V
Method : Set to AM 1000 kHz<U> or MW 999 kHz<EZ,K> and check that the test point is $40 \text{ mV} \pm 3 \text{ dB}$.

<FM>
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Input level : 60dB μ V
Method : Set to FM 98.0 MHz and check that the test point is $200 \text{ mV} \pm 3 \text{ dB}$ <U> or $140 \text{ mV} \pm 3 \text{ dB}$ <EZ,K>.
15. FM Separation Check
Settings : • Test point : TP8 (Lch), TP9 (Rch)
• Input level : 60dB μ V
Method : Set to FM 98.0 MHz and check that the test point is more than 25dB<U> or 12dB<EZ,K>.

< DECK SECTION >

10. Tape Speed Adjustment (DECK 2)

- Settings : • Test tape : TTA-100
• Test point : TP8(Lch), TP9(Rch)
• Adjustment location : SFR1

Method : Play back the test tape and adjust SFR1 so that the frequency counter reads 3000 Hz \pm 5 Hz (FWD) and FWD speed \pm 45 Hz (REV) with respect to forward speed.

11. Head Azimuth Adjustment (DECK 1, DECK 2)

- Settings : • Test tape : TTA-330
• Test point : TP8(Lch), TP9(Rch)
• Adjustment location : Head azimuth adjustment screw

Method : Play back (FWD) the 8 kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on REV PLAY mode.

12. PB Frequency Response Check (DECK 1, DECK 2)

- Settings : • Test tape : TTA-330
• Test point : TP8(Lch), TP9(Rch)

Method : Play back the 315 Hz and 8 kHz signals of the test tape and check that the output ratio of the 8 kHz signal with respect to that of the 315 Hz signal is within 5dB.

13. PB Sensitivity Check (DECK 1, DECK 2)

- Settings : • Test tape : TTA-200
• Test point : TP8(Lch), TP9(Rch)

Method : Play back the test tape and check that the output level of the test point is 140 mV \pm 3dB.

14. REC/PB Frequency Response Adjustment (DECK 2)

- Settings : • Test tape : TTA-602
• Test point : TP8(Lch), TP9(Rch)
• Input signal : 1 kHz / 10 kHz (LINE IN) (-20VU)
• Adjustment location : SFR451 (Lch)
SFR452 (Rch)

Method : Apply a 1 kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes 0dB (10 mV). Record and play back the 1 kHz and 10 kHz signals and adjust SFRs so that the output of the 10 kHz signals becomes 0dB \pm 1dB with respect to that of the 1 kHz signal.

15. REC/PB Sensitivity Check (DECK 2)

- Settings : • Test tape : TTA-602
• Test point : TP8(Lch), TP9(Rch)
• Input signal : 1 kHz (LINE IN) (OVU)

Method : Apply a 1 kHz signal and REC mode. Then adjust OSC attenuator so that the output level at TP8, TP9 becomes 0dB (100 mV). Record and play back the 1 kHz signals and check that the output is -1dB \pm 3.5dB.

< FRONT SECTION >

16. μ -CON OSC Adjustment

- Settings : • Test point : TP10 (KEYSCAN)
TP11 (D-GND)
• Adjustment location : L101

Method : Insert AC plug while pressing POWER key and TUNER function key. Connect a frequency counter across TP10 and TP11. Then adjust L101 so that the frequency at the test point is 208.80 Hz \pm 0.21 Hz.

[Manual Reset]

Make up for RESET after adjustment.

* Reset is to press POWER key while pressing CLEAR (STOP) key.

CD TEST MODE

1. How to Activate CD Test Mode

While pressing and holding the function button, insert the AC plug.
When the test mode starts, the message, "TEST" appears on the display.

2. How to Cancel CD Test Mode

Press the POWER button or remove the AC plug.
* The test mode is cancelled by other function keys during play.

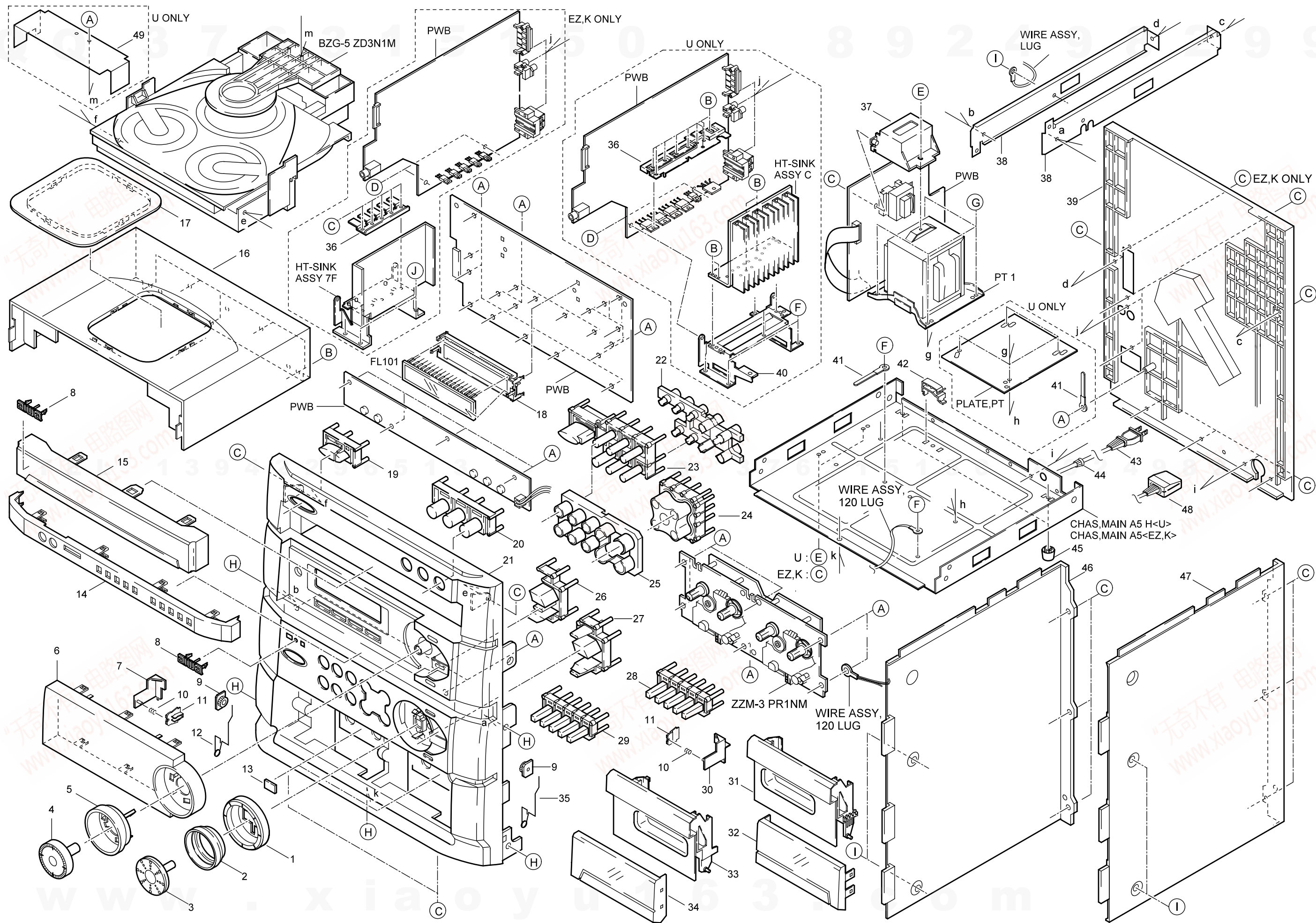
3. Function and Usage of CD Test Mode

No	Mode	Button for Activation	Display	Operation	Contents
1	Start Mode		All lights are lit.	All FL are lit.	<ul style="list-style-type: none"> • FL check • Microcomputer check
2	Search Mode	STOP button	Reading	<ul style="list-style-type: none"> • Laser diode is lit during the mode. • Focus search continuous operation. *1 • Spindle motor continuous kick. 	<ul style="list-style-type: none"> • APC circuit check • Laser current measurement • Focus-search waveform check • Focus-error waveform check (DRF is ignored during search mode)
3	Play Mode	PLAY button	Normal	<ul style="list-style-type: none"> • Normal playback. • Focus search continues if TOC READ cannot be read. 	<ul style="list-style-type: none"> • All servo circuits check • DRF check
4	Traverse Mode	PAUSE button	Normal	<ul style="list-style-type: none"> • Tracking Servo OFF/ON. The OFF/ON operation repeats each time the PAUSE button is pressed. 	<ul style="list-style-type: none"> • Tracking balance check
5	Sled Mode	FF button	TEST	<ul style="list-style-type: none"> • PU moves to inner track. *2 At the same time, the lens is kicked to inner track. 	<ul style="list-style-type: none"> • Sled circuit check • Tracking circuit check
		RWD button	TEST	<ul style="list-style-type: none"> • PU is moves to outer track. *2 At the same time, the lens is kicked to outer track. 	<ul style="list-style-type: none"> • Mechanism operation check • PU check
6	Spindle Mode	REC button	All lights are lit.	<ul style="list-style-type: none"> • When the button is pressed, the spindle motor operates in forward rotation (rough speed). Then, the button is pressed again, it operates in reverse rotation. When the button is pressed again, operation stops. 	<ul style="list-style-type: none"> • Spindle circuit check • Spindle motor check

*1 ... When focus search operates continuously more than 10 minutes, the protection circuit may start due to generation of heat in the driver IC. If this happens, turn off the power, leave the unit for a while, and then, restart.

*2 ... Carefully monitor the gear against damage, as the sled motor rotates while the FF or RWD button is pressed even when the pickup is located at innermost or outermost.

MECHANICAL EXPLODED VIEW 1 / 1



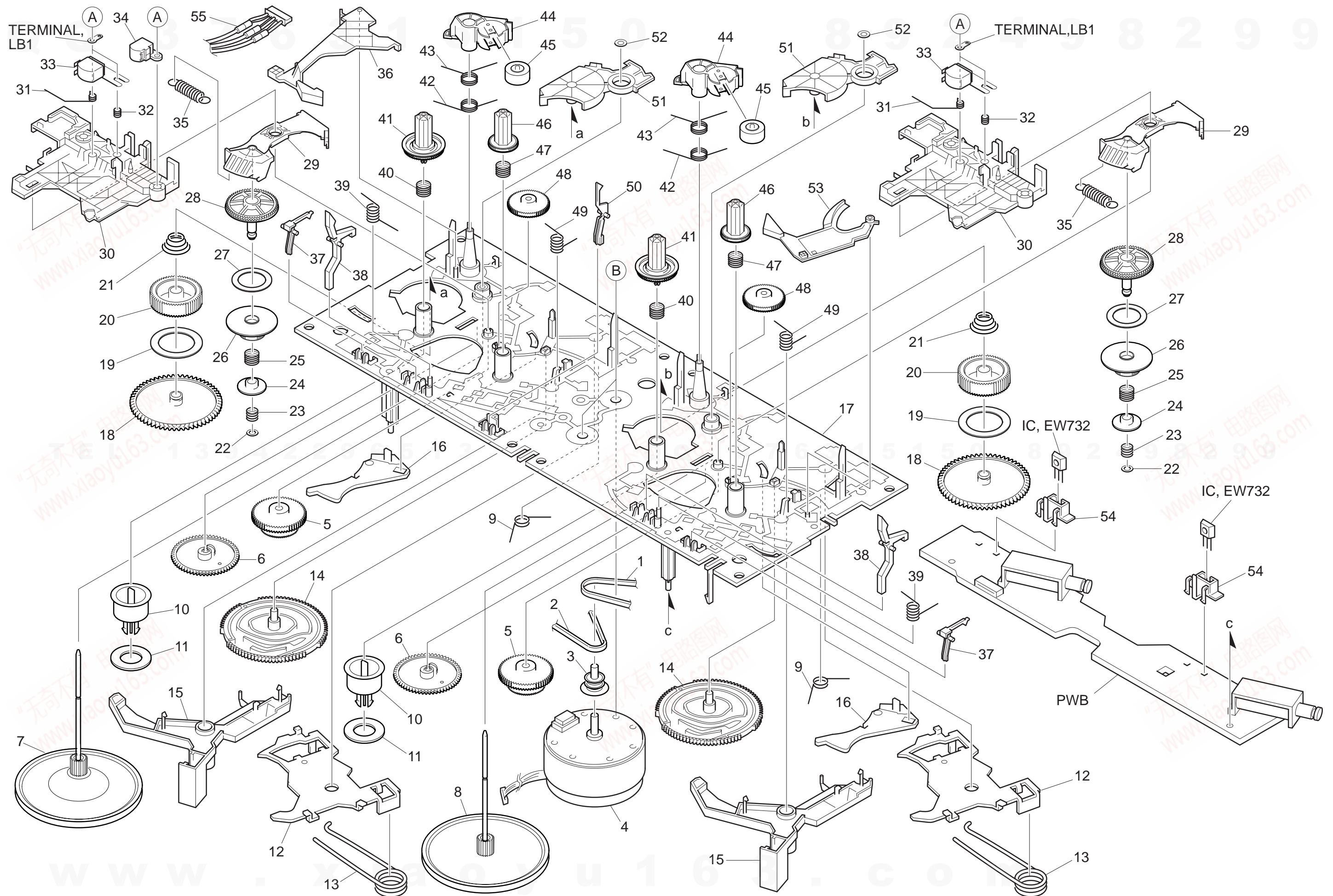
MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION			
1	8B-MA3-088-010		RING, IND	33	8B-MA3-025-010	BOX, CASS L A3
2	8B-MA5-087-010		RING, JOG R	34	8B-MA3-055-010	WINDOW, CASS L A3
3	8B-MA3-081-010		KNOB, RTRY JOG	35	8A-MA5-208-010	SPR-T, EJECT 2
4	8B-MA3-105-010		KNOB ASSY, RTRY VOL	36	8B-MA3-207-010	HLDR, TR A3<U>
5	8B-MA3-086-010		RING, VOL	36	8B-MA6-207-010	HLDR, TR A6<K, EZ>
6	8B-MA5-052-010		WINDOW, DISP RDS A5<K, EZ>	37	8A-DB8-209-010	HLDR, PWB PT
6	8B-MA5-051-010		WINDOW, DISP U A5<U>	38	88-MA1-208-210	JOINT, CABI
7	87-NF4-216-010		HLDR, LOCK 1	△ 39	8B-MA5-012-010	CABI, REAR K A5<K, EZ>
8	87-B00-002-010		BADGE, AIWA 30 ABS SIL	△ 39	8B-MA5-010-010	CABI, REAR U A5<U>
9	87-NF8-220-010		DMPR, 150	40	8B-MA3-202-010	HLDR, HT-SINK<U>
10	86-NF9-224-010		SPR-C, LOCK	41	87-064-185-010	HLDR, WIRE
11	82-NF5-229-010		PLATE, LOCK	42	87-NF4-221-010	HLDR, CABLE
12	8A-MA5-207-010		SPR-T, EJECT 1	43	87-A80-157-010	AC CORD ASSY, E BLK C<K, EZ>
13	81-532-080-010		LABEL, CASS. COMPT	43	87-A80-149-010	AC CORD ASSY, U BLK<U>
14	8B-MA5-031-010		PANEL, GEQ A5<U>	44	87-085-185-010	BUSHING, AC CORD (E)CM-22B<K, EZ>
14	8B-MA5-032-010		PANEL, GEQ RDS A5<K, EZ>	44	87-A91-422-010	BUSHING, AC CORD (U)<U>
15	8B-MA5-030-010		PANEL, TRAY A5	45	87-MA3-062-010	FOOT, H17
16	8B-MA6-019-010		CABI, TOP U	46	8B-MA3-047-010	PANEL, SIDE L (U)
17	8A-MA3-057-010		WINDOW, TOP<K, EZ>	47	8B-MA3-048-010	PANEL, SIDE R (U)
17	8A-MA3-058-010		WINDOW, TOP U<U>	△ 48	87-099-811-010	PLUG, ADPTR CONV(K)<K>
18	87-MA5-203-110		GUIDE, FL	49	8B-MA5-210-010	SH, SHLD DUST 3CD W/ADH<U>
19	8B-MA3-061-010		KEY, OPEN	A	87-078-060-010	BVIT3PB+3-10
20	8B-MA5-063-010		KEY, DIRECT A5	B	87-067-758-010	BVT2+3-12 W/O SLOT
21	8B-MA5-001-010		CABI, FR A5	C	87-067-703-010	TAPPING SCREW, BVT2+3-10
22	8B-MA3-206-010		GUIDE, LED OPE	D	87-NF4-224-010	S-SCREW, IT3B+3-8 CU
23	8B-MA3-102-010		KEY ASSY, OPE	E	87-067-689-010	TAPPING SCREW, BVT2+3-8
24	8B-MA5-103-010		KEY ASSY, FUNC A5	F	87-B10-315-010	BVIT3B+3-8 R W/O
25	8B-MA3-084-010		RING, OPE	G	87-078-200-010	S-SCREW, ITC+4-8 R
26	8B-MA3-064-010		KEY, T-BASS A3	H	87-591-095-410	TAPPING SCREW, QIT+3-8 (GLD)
27	8B-MA3-065-010		KEY, ENTER	I	87-067-641-010	UTT2+3-8(W/O SLOT)BL
28	8B-MA3-066-010		KEY, GEQ	J	87-B10-316-010	BVIT3B+3-10 R W/O<K, EZ>
29	8B-MA3-067-010		KEY, RDS<K, EZ>			
30	87-NF4-217-110		HLDR, LOCK 2			
31	8B-MA3-026-010		BOX, CASS R A3			
32	8B-MA3-056-010		WINDOW, CASS R A3			

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink
LA	Aqua Blue	GL	Light Green	HT	Transparent Gray

TAPE MECHANISM EXPLODED VIEW 1 / 1



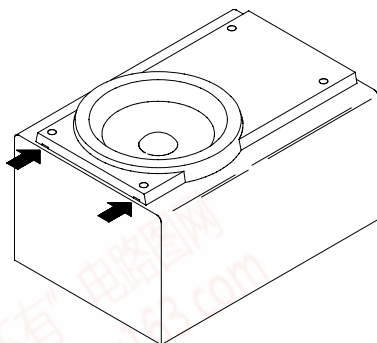
TAPE MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-ZM3-227-010		BELT, MAIN M3	31	8Z-ZM3-233-010		SPR-T, BRG M3
2	8Z-ZM3-235-010		BELT, MAIN L	32	84-ZM2-227-310		SPR-C, AZIMUTH
3	8Z-ZM1-235-010		PULLEY, MOT	33	87-A90-403-110		HEAD, RPH MS15R
4	87-045-347-010		MOT, SHU2L 70	34	87-A90-404-010		HEAD, EH LE15B
5	8Z-ZM1-232-010		GEAR, IDL FF/REW	35	8Z-ZM3-239-010		SPR-E, FR
6	8Z-ZM3-244-010		GEAR, CAM TD20	36	8Z-ZM3-211-010		LEVER, EJECT R
7	8Z-ZM3-256-010		FLY-WHL ASSY, M3 R	37	8Z-ZM3-225-010		LEVER, STOP
8	8Z-ZM3-255-010		FLY-WHL ASSY, M3 L	38	8Z-ZM3-221-010		LEVER, CAS
9	8Z-ZM3-231-010		SPR-T, TRIG	39	8Z-ZM3-234-010		SPR-T, LVR CAS
10	8Z-ZM3-213-010		CLR, MG	40	8Z-ZM3-223-010		SPR-C, REEL R M3
11	82-ZM3-616-010		RING MAGNET 4	41	8Z-ZM1-225-110		GEAR, REEL R
12	8Z-ZM3-243-010		LEVER ASSY, HD UP	42	8Z-ZM3-240-010		SPR-T, T-UP M3
13	8Z-ZM3-238-010		SPR-T, HD UP	43	8Z-ZM3-237-010		SPR-T, PINCH M3
14	8Z-ZM3-219-010		GEAR, CAM M3	44	8Z-ZM3-215-010		LEVER, PINCH M3
15	8Z-ZM3-206-010		LEVER, TRIG	45	8Z-ZM1-261-110		ROLLER ASSY, PINCH
16	8Z-ZM3-209-010		LEVER, CAM FR	46	8Z-ZM1-226-010		GEAR, REEL L
17	8Z-ZM3-203-010		CHAS ASSY, M3	47	8Z-ZM3-222-010		SPR-C, REEL L M3
18	8Z-ZM1-228-010		GEAR, SLIP T-UP B	48	8Z-ZM3-251-010		GEAR, IDL REW M3
19	8Z-ZM1-265-010		FELT, T-UP	49	8Z-ZM3-236-010		SPR-T, PLAY M3
20	8Z-ZM1-227-010		GEAR, SLIP T-UP A	50	82-ZM1-240-110		LVR, REC (*)
21	8Z-ZM1-251-110		SPR-C, T-UP SLIP	51	8Z-ZM3-216-010		LEVER, T-UP M3
22	8Z-ZM1-275-010		W-L, 1, 47-4-0.25	52	87-B10-301-010		W-L, 1.63-3.2-05 SLIT
23	8Z-ZM1-257-010		SPR-C, F/R	53	8Z-ZM3-212-010		LEVER, EJECT L
24	8Z-ZM1-236-010		CLR, SLIP FF/REW	54	8Z-ZM3-214-010		HLDR, IC
25	8Z-ZM3-226-010		SPR-C, FR M3	55	86-ZM3-605-110		CONN ASSY, 8P -RPB
26	8Z-ZM3-250-010		GEAR, SLIP F/R A M3	A	84-ZM2-242-010		S-SCREW, AZ1-2-6.4
27	8Z-ZM1-269-010		FELT, FF/REW 2	B	8Z-ZM2-220-110		V+2.6 ZM-2
28	8Z-ZM1-238-110		GEAR, SLIP FF/REW B 2				
29	8Z-ZM3-220-010		LEVER, FR M3				
30	8Z-ZM3-205-010		LEVER, PLAY M3				

GENERAL SPEAKER DISASSEMBLY INSTRUCTIONS (FOR REFERENCE)

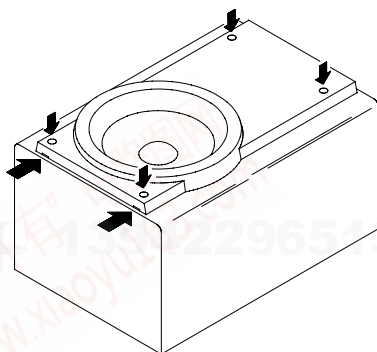
Type.1

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



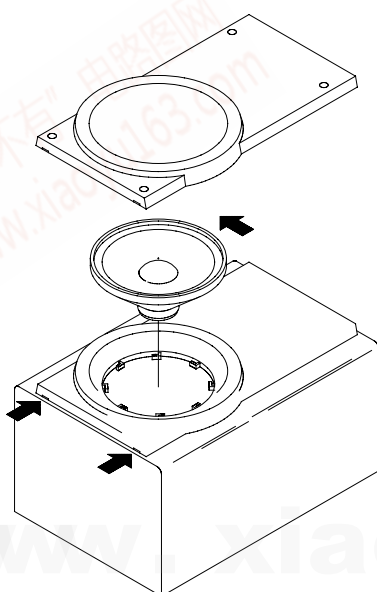
Type.2

Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



Type.3

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Turn the speaker unit to counter-clockwise direction while inserting a flat-bladed screwdriver into one of the hollows around speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turning to clockwise direction until "click" sound comes out.



Type.4



TOOLS

- ① Plastic head hammer
- ② (⊖) flat head screwdriver
- ③ Cut chisel

How to Remove the PANEL, FR

1. Insert the (⊖) flat head screwdriver tip into the gap between the PANEL, FR and the PANEL, SPKR. Tap the head of the (⊖) flat head screwdriver with the plastic hammer head, and create the clearance as shown in Fig-1.
2. Insert the cut chisel in the clearance, and tap the head of the cut chisel with plastic hammer as shown in Fig-2, to remove the PANEL, FR.
3. Place the speaker horizontally. Tap head of the cut chisel with plastic hammer as shown in Fig-3, and remove the PANEL, FR completely.

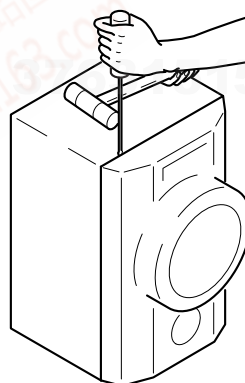


Fig-1

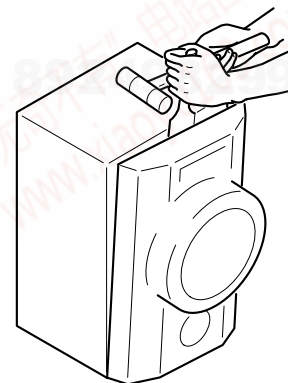


Fig-2

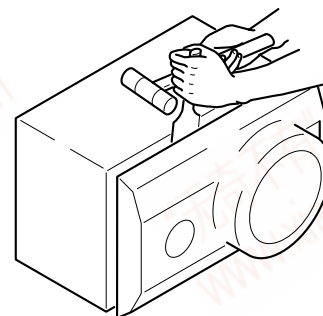


Fig-3

How to Attach the PANEL, FR

Attach the PANEL, FR to the PANEL, SPKR. Tap the four corners of the PANEL, FR with the plastic hammer to fit the PANEL, FR into the PANEL, SPKR completely.

SPEAKER PARTS LIST SX-ZL520 (YUSC , YSC)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-MSF-001-010		PANEL, DUCT
2	8B-MSG-002-010		GRILLE, FRAME ASSY
3	8A-NSJ-006-010		BADGE, AIWA S35
4	8B-MSG-612-010		CORD, SPKR
5	8B-MSF-602-010		SPKR, W 160 30/4<YUSC>
6	8B-MSF-606-010		SPKR, W 160 25/4<YSC>
7	8B-MSF-604-010		SPKR, TW 60
8	83-MSE-605-010		SPKR, CERAMIC

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-MA5-903-010		IB, U (ESP) M<U>
1	8B-MA5-905-010		IB, K (E) M<K>
1	8B-MA5-906-010		IB, EZ (9L) M<EZ>
2	8Z-NF9-702-010		RC UNIT, ZAS02
3	87-043-115-010		ANT, FEEDER FM<U>
4	87-006-268-010		ANT, LOOP AM
5	87-A90-118-010		ANT, WIRE FM (Z) <EZ, K>

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